

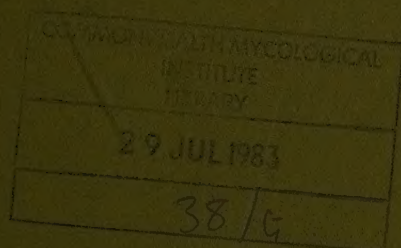


COMMONWEALTH

AGRICULTURAL

BUREAUX

Biocontrol news and information



[illegible]

BIOCONTROL NEWS AND INFORMATION

Volume 3

NEWS ITEMS	1	97	185	271
REVIEW ARTICLE	7	105	191	279
ABSTRACTS	25	111	201	287
FIELD AND HORTICULTURAL CROPS	25	111	201	287
<i>Sugarcane</i>	25	111	201	287
<i>Cereals</i>	26	112	202	289
<i>Fodder and Herbage Crops</i>	30	114	205	292
<i>Legumes</i>	35	117	207	293
<i>Tropical Root Crops</i>	37	117	208	295
<i>Oilseed Crops</i>	37	118	209	295
<i>Vegetables</i>	38	119	209	296
<i>Soft Fruit</i>	43	121	212	299
<i>Fibre Crops</i>	43	122	213	301
<i>Other</i>	45	125	215	303
PLANTATION AND ORCHARD CROPS	47	127	217	305
<i>Temperate</i>	47	127	217	305
<i>Subtropical</i>	50	129	219	307
<i>Tropical</i>	52	131	222	310
<i>Beverage Crops</i>	—	132	224	310
<i>Palms</i>	53	133	224	311
FOREST AND SHADE TREES	53	133	225	312
<i>General</i>	53	133	225	312
<i>Broadleaf</i>	55	134	226	314
<i>Conifer</i>	57	137	229	317
ORNAMENTAL PLANTS	59	140	232	319
STORED PRODUCTS	60	141	233	321
VERTEBRATE PESTS	60	—	233	322
USEFUL INSECTS	61	142	234	322
MEDICAL AND VETERINARY	61	143	234	323
<i>Mosquitoes</i>	61	143	234	323
<i>Other flies</i>	65	146	238	327
<i>Miscellaneous</i>	65	146	238	327
WEEDS	68	151	242	331
<i>Terrestrial</i>	68	151	242	331
<i>Aquatic</i>	70	158	246	335
<i>Parasitic</i>	72	159	248	336
INTEGRATED CONTROL	73	160	248	337
TECHNIQUES	74	163	251	338
TAXONOMY AND CATALOGUES	77	167	254	342
GENERAL	82	171	259	347
<i>Books & Reviews</i>	82	171	259	347
<i>Biology</i>	86	175	262	351
<i>Ecology</i>	92	181	268	359
AUTHOR INDEX				365
SPECIES INDEX				377

- Abai, M. 675
 Abayis, H.K. 206
 Abdel-Fattah, M.L. 133,638, 1472
 Abd-El-Moity, T.H. 569
 Abdel-Moneim, M.F. 1472
 Abdel-Rahman, H.A. 1766,2022
 Abdil'daev, M.A. 1799
 Abdul-Rassoul, M.S. 901
 Abdurahiman, U.C. 472,1185
 Abdurakhmanov, M.I. 1199
 Able, K.W. 1268
 Ables, J.R. 131,136,369, 462,1454,1483
 Abol-Ela, S. 1661
 Abou-Awad, B.A. 1174,1175
 Abraham, C.C. 1397,1478
 Abu-Ela, S.M. 987,988
 Acevedo, R. 1647
 Achterberg, C. van 1925
 Acreman, T.M. 531
 Adams, C.T. 1015
 Adams, E.B. 1340,1471
 Adams, P.B. 619,1129
 Adashkevich, B.P. 1894
 Adlakha, R.L. 1378
 Aeschlimann, J.P. 539
 Afifi, A.M. 1052
 Agarwala, B.K. 927,1962, 1963,1757
 Agekyan, N.G. 964
 Agosta, G.G. 94
 Aguilar, F., P.G. 1646,1970, 1986
 Ahmed, M.S. 320
 Aiello, A. 235
 Aizawa, K. 1444
 Ajri, D.S. 1179
 Akanbi, M.O. 1214
 Akayama, A. 1503
 Akhurst, R.J. 996
 Akinlosotu, T.A. 557
 Akopyan, S.G. 673
 Akre, R.D. 1307
 Alam, A. 322
 Alam, M.M. 1
 Alam, M.S. 320
 Alam, S. 320
 Al-Badry, E.A. 717,718,719
 Albajes, R. 580
 Alcalá, C., P. 1621
 Alencar Magro, J. 3
 Alexandrakis, V. 645
 Alexandrescu, S. 571
 Alfaro, R.I. 222
 Alfiler, A.R.R. 984
 Alger, P. 1665
 Al-Hassan, K.K. 660
 Ali, A. 1811,1294
 Aliev, A.A. 1457,1957
 Alkema, P. 1664
 Al Khersraji, T.O. 1871
 Alkhoury, I. 791,821
 Allan, D.J. 538
 Allen, D.C. 1211
 Allen, G.E. 821,840,1581
 Alma, P. 1218
 Alma, P.J. 691
 Almeida, A.A. 518
 Almeida, J.R. de 1633
 Almquist, S. 1623
 Alomar, O. 580
 Alrouehdi, K. 178,179,648, 1003,1164,1689
 Altieri, M.A. 500,1531
 Alvarez S., F. 1644
 Alves, S.B. 486,861
 Amargier, A. 1636,1661
 Ambrose, J.T. 1260
 Ambrosi, P. 1746
 Amin, A.H. 611
 Aminah, S. 1283
 Amir, H. 661
 Ammar, E.D. 987,988
 Amonkar, S.V. 520
 Amor, R.L. 304,821
 Ananthakrishnan, T.N. 1984
 Anderson, J.F. 668
 Anderson, J.R. 280
 Anderson, R.M. 1011,2061
 Andrade, C.F.S. de 610
 Andreadis, T.G. 516,752
 Andreeva, R.V. 409,764
 Andres, L.A. 305,821,1336
 Andrews, J.H. 1363
 Andrews, K.L. 1461
 Androsof, G.K. 722
 Angalet, G.W. 635
 Angelova, R. 1660
 Angerilli, N.P.D. 728
 Ankersmit, G.W. 531
 Annecke, D.P. 900
 Annis, B. 1599
 Anthony, D.W. 740
 Antonenko, O.P. 29
 Antropov, A.I. 1416
 Aoki, J. 2036
 Apostol, R.F. 1027
 Apperson, C.S. 321
 Arambourg, Y. 647,648, 1689
 Arditi, R. 504
 Arenas, E.C. 452
 Argyriou, L.C. 1135
 Arif, B.M. 1916
 Armbrust, E.J. 56,57,535, 1047
 Armstrong, E. 1773
 Armstrong, T. 1749
 Arputhamani, M. 1016
 Artigues, M. 1919
 Artokhin, K.S. 1975
 Ashfaq Ahmad 1360
 Aslamkhan, M. 739
 Aspöck, H. 933
 Aspöck, U. 933
 Assal, O. 1472
 Assem, J. van den 470
 Ataur-Rahim, M. 248
 Atkinson, K.M. 934
 Attia, F.I. 974
 Aubert, B. 643
 Audemard, H. 584
 Auroi, C. 1304
 Australia, CSIRO Division of Entomology 1361, 1862,1878
 Australia, Queensland Department of Lands 787,834
 Australia, Yanco Agricultural Research Centre 438
 Austreng, M.P. 159
 Aveling, C. 143,144
 Avtar Singh 597
 Awadallah, K.T. 601,678, 710,711,801,805,809, 810,837,982,983,987, 987,988,989,991,992
 Axtell, R.C. 321,1300
 Ayala Sifontes, J.L. 469
 Ayers, W.A. 619,1129
 Ayquipa, A., G. 2,1536
 Ayquipa A., G.E. 1906
 Azab, A.K. 592
 Aziz, M.I.A. 1769
 Ba-Angood, S.A. 33
 Babault, M. 973
 Babie, S.J. 1791
 Babrikova, T. 1117,1380, 1660,2025
 Badar-ud-Din 1360
 Badawi, A. 641
 Badie, A. 292
 Baer, R.G. 826,1359
 Baeza-Aragon, C.A. 657
 Baggs, R.D. 1811
 Bai, M.G. 1269
 Bailey, D.L. 1785
 Bailey, T.E. 1867
 Bain, J. 1218
 Baker, G.L. 2018
 Baker, K.F. 944
 Baker, R. 101,946,957, 1128,1924,1993
 Baker, R.T. 1625
 Bakina, R.M. 336
 Bakke, A. 699
 Bakowski, G. 1132
 Bakwad, D.G. 1113
 Balakrishnan, S. 998
 Balaraman, K. 259,260,869, 1278,1797
 Balarin, I. 562
 Balasubramanian, M. 132,606, 1774
 Balciunas, J.K. 1356,1357, 1879
 Baljinder Singh 4, 1495,1901
 Bal'man, R.A. 1510
 Balsbaugh, E.U., Jr. 803
 Bambara, S.B. 1260
 Bandong, J.P. 1027
 Banerjee, P. 138
 Banfield, E.C. 1194
 Bang, Y.H. 1283
 Baniabbassi, N. 1544
 Banit, V.N. 67
 Banks, W.A. 1976
 Bara, J.R. 513,514
 Baranowski, R.M. 1337
 Baratov, Sh.B. 763
 Barbagallo, S. 168,174
 Barbosa, P. 1723
 Barbulescu, A. 517
 Barclay, H. 497
 Barfield, C.S. 339
 Barjac, H. de 1279,1280, 1821
 Barlin, M.R. 1927
 Barlow, C.A. 80
 Barnes, G.L. 66,1126,1471, 1656
 Barnett, W.W. 634
 Barney, R.J. 56,57,535,1047
 Barnish, G. 1310
 Barov, V. 1398
 Barr, W.F. 821
 Barrion, A.T. 19,1027,1562, 1565
 Barrows, E.M. 1584
 Barrows-Broadus, J. 706
 Bartos, J. 1615
 Bartowski, J. 1803
 Basham, H.G. 724
 Bashford, R. 689
 Basiouny, H.K. 778
 Bassett, L.J. 316
 Basiouny, H.K. 290
 Bastian, O. 1755
 Bastos, C.N. 1696
 Basu, A.K. 1635
 Bath, J.E. 840
 Batra, S.W.T. 300,309, 821,1319
 Battisti, R. de 1738
 Baugher, D.G. 1904
 Baumgaertner, J. 64
 Baumgaertner, J.U. 505, 2047,2050
 Baumhover, A.H. 1574,1649
 Bay, D.E. 1301
 Bayan, A.Kh. 1629
 Baylac, M. 208
 Bazzi, C. 1470
 Beach, M.L. 823,1348
 Beaucournu, J.C. 239
 Bechinski, E.J. 1580
 Beckmann, R.L. 802
 Bedard, W.D. 698
 Bedding, R.A. 552,1098, 1405,1626
 Bedell, T.E. 1333
 Bedoya, J. de D.R. 804
 Beegle, C.C. 1109
 Beerwinkle, K.R. 359
 Beevers, M. 1494
 Beglyarov, G.A. 1412
 Beichle, U. 186
 Beier, J.C. 1807
 Beingolea G., O.D. 1654
 Bell, D.K. 1471
 Bell, H.T. 583
 Bell, R.A. 1410,1727,1917
 Bellemare, N. 1511
 Bellonck, S. 1511
 Bellows, T.S., Jr. 2058
 Belotserkovskii, Yu.B. 1351
 Bel'skaya, N.M. 629
 Benassy, C. 645
 Bendell, B.E. 1018
 Benedict, J.H. 60
 Benfatto, D. 176,1158, 1162
 Bengston, M. 123
 Benjamin, D.M. 705,1207
 Ben-Mordechai, Y. 1177
 Bennett, C.A. 1882
 Bennett, F.D. 45,189,319, 1337
 Ben-Ze'ev, I. 922,1440
 Berest, Z.L. 31,32
 Berg, M.A. van den 794,795, 1156,1868
 Bergamin Filho, A. 1083
 Berger, H. 13,1550
 Bergeron, J.M. 1777
 Bergey, E.A. 1291
 Berisford, C.W. 694,1201, 1750
 Berner, B. 428
 Betbeder-Matibet, M. 1538, 1540,1994
 Betke, P. 1302
 Bhatnagar, V.S. 608,609, 1585
 Biache, G. 1514
 Biase, L. Miceli de 174
 Bielawski, R. 422
 Biever, K.D. 356
 Bigler, F. 1166
 Bindra, O.S. 4
 Birjandi, A.K. 1763
 Birks, P.R. 42
 Bisabri-Ershadi, B. 426
 Bishop, A.L. 602,1643
 Bis Viera, E.A. 3

- Biswas, S. 298
 Bitton, S. 922
 Black, K. 56
 Blanchard, R.O. 1212
 Blair, B.D. 841
 Blakeman, J.P. 943
 Blanchette, B.L. 788
 Blom, J.E. 821
 Blood, P.R.B. 1643
 Blumberg, D. 465
 Blume, R.R. 295
 Blumenthal, E.M. 679
 Boas, A.M.V. 1408
 Bocangel, M. 115
 Boerema, G.H. 1864
 Bogenschutz, H. 663
 Boldt, P.E. 889,1319,
 1322,1849
 Boldyrev, M.I. 156
 Boller, E. 588
 Bolte, L.C. 1772
 Boman, A. 995
 Boman, H.G. 995
 Bondarenko, N.V. 104
 Bondareva, N.D. 199
 Bonduryanskaya, B. 335
 Boonnitee, W. 836
 Boonstra, R. 1256
 Boric, B. 1364
 Bordas, E. 580
 Borden, J.H. 222
 Boreham, P.F.L. 348,1539
 Borkent, A. 731
 Borrás, C. 342
 Bosch, D.F. 1102
 Bosch, R. van den 843
 Bostanian, N.J. 1895
 Botto, E.N. 450,1042
 Bottrell, D.R. 842
 Bouček, Z. 899
 Bouchard, D. 1134
 Bounaga, D. 661
 Bourne, J.D. 198
 Boush, G.M. 1920
 Bouton, C.E. 495
 Bouyjou, B. 1141
 Bove, J.M. 643
 Boyett, J.M. 252
 Boyette, C.D. 1346,1471
 Bradbury, I.K. 315
 Brader, L. 1994
 Bradley, J.R., Jr. 73
 Brady, A.R. 405
 Brandenburg, R.L. 1508
 Brandt, J.M. 639
 Brawner, O.L. 167
 Breaud, T.P. 741
 Brewer, F.D. 1014
 Brewer, J.W. 1914
 Briese, D.T. 109
 Briolini, G. 977,978
 Broadbent, J.E. 828
 Broadley, R.H. 568
 Brockman, H.J. 501
 Bromand, B. 1082
 Bronkhorst, G.J. 175
 Brooke, R.K. 774
 Brothers, D.J. 721
 Brown, A.H.D. 821
 Brown, D. 1749
 Brown, D.A. 2040
 Brown, M.W. 1202
 Browning, H.W. 1997
 Broza, M. 1111
 Bruce, W.A. 770
 Brudea, V. 58,59
 Bruen, D. 2018
 Brust, R.A. 1809
 Bryan, G. 467
 Bryantseva, T.P. 199
 Bryginskii, S.A. 254
 Buchanan, G.A. 123,732
 Buchatskii, L.P. 891
 Buckingham, G. 312
 Buckingham, G.R. 830,1882
 Buckley, B.R. 1349
 Buckmaster, D.E. 821
 Bues, R. 1609
 Buijs, M.J. 1994
 Buitendag, C.H. 175
 Bulit, J. 943
 Bull, D.L. 136,369
 Burakova, V.I. 471
 Burbutis, P.P. 358,1090,
 1551
 Burdon, J.J. 821,1317,
 1860
 Burford, I.R. 1791
 Burgerjon, A. 1514,1609
 Burges, G. 636
 Burges, H.D. 886,887,
 1627
 Burkholder, W.E. 1920
 Burman, M. 994,1504
 Burton, R.L. 1402,1672
 Buryi, V.F. 17
 Butcher, C.F. 41,50,53
 Butler, G.D., Jr. 1493
 Buttiker, W. 430,932
 Byers, R.A. 1048
 Caballero Figueroa, S. 469
 Caballero Grande, R. 1647
 Cai, Q.J. 1729
 Cairns, A.L.P. 1318
 Calihung, V.J. 984
 Caltagirone, L.E. 939
 Calvert, W.H. 219
 Cameron, A.L. 1785
 Cameron, E.A. 1202
 Cameron, P.J. 41,50,52,
 538,1571,2016
 Campbell, C.J. 575
 Campbell, R.W. 671
 Campobasso, G. 1322,1849
 Campos Aranda, M. 1163
 Campos, A.R. 1613,1691
 Campos, M. 646
 Campos, R. 115
 Canard, M. 124,178,180,
 648,1689,1690
 Cano, R.J. 491
 Cantrell, B.K. 68
 Capehart, J.S. 1301
 Capek, M. 1714
 Capo, B.T. 1471
 Capurro, L.F. 451
 Cardona, C. 1106
 Carew, G.C. 1194
 Carleton, D.J. 1256
 Carmean, D. 1307
 Carnegie, A.J.M. 9,1546
 Carner, G.R. 77,229
 Carpenter, S.R. 2059
 Carrero, J.M. 171
 Carroll, D.P. 644
 Carter, J.B. 1054
 Cartwright, B. 1847
 Carvalho, A.O.R. de 861
 Carvalho, E.L. de 419
 Carvalho, C.F. de 560
 Carvalho, S.M. de 861
 Carver, M. 385
 Cary, P.R. 821
 Casadevall, M. 580
 Casale, A. 1224
 Casida, J.E. 1891
 Cassani, J.R. 823,833,1348
 Castellari, P.L. 632
 Castillo, J.M. 282,1305
 Castresana, L. 30
 Castroville, P.J. 1896
 Caubel, B. 1127
 Cave, G.L. 815
 Caveness, F. 1070
 Cavers, P.B. 316
 Cayroll, J.C. 488
 Cech, J.J., Jr. 269,270,
 271
 Center, T.D. 1357,1873,
 1879
 Cerqueira, E.J.L. 768
 Chacko, M.J. 702,1733
 Chadee, D.D. 1188
 Chagas, E.F. das 1561
 Chakravarthy, A.K. 83
 Chak'rova, V. 340
 Champlin, F.R. 1672
 Chandler, L.D. 464
 Chandra, G. 22,525
 Chandrasekharan, R. 1698
 Chang, S.F. 26
 Chang, W.L. 1116
 Chang, Y.C. 653
 Chang, Y.D. 1557
 Channa Basavanna, G.P. 1186
 Chant, D.A. 1007,1431
 Chanter, D.O. 1119
 Chao, H.F. 894,1420
 Chao, W.Y. 1116
 Chapman, R.B. 482
 Charpentier, R. 582
 Charudattan, R. 814,821,
 827,1876
 Charyev, R. 1350
 Chaudhari, S. 574
 Chaudhary, J.P. 1017
 Chaudhry, M.L. 723
 Chauvaux, J. 1514
 Chazeau, J. 1187,2021
 Cheema, M.A. 127,128
 Chen, E.Y. 478
 Chen, M. 1081
 Chen, S.L. 1729
 Chen, T.W. 666
 Chen, W.H. 666
 Chen, W.-Y. 1471
 Chen, Z.H. 478
 Cheng, H.H. 1452
 Cheng, Y.H. 653
 Chenon, R.D. de 662
 Cherix, D. 198,665
 Chernev, T. 1192
 Chernikh, O.G. 366
 Cherry, R. 172
 Cherry, R.H. 865
 Chet, I. 101,585,1100,
 1128,1246,1924,1993
 Cheung, P.Y.K. 1672
 Chi, Y.L. 524
 Chiang, H.C. 849,2006
 Chilcott, C.N. 1281
 Childers, C.C. 407
 Chile, S.K. 1657
 Chin, W.H. 307
 China, Fujian Forestry
 College 191
 China, Institute of Zoology,
 Academia Sinica 847
 China, Research Group on
 Pesticide Efficiency; Hunan
 Institute of Microbiology 1560
 Chiu, S.F. 18,1563
 Choi, K.M. 1553
 Chou, C.L. 1641
 Chou, L.Y. 1958
 Choudhuri, J.C.B. 1213
 Chow, Y.S. 1038
 Christie, J.D. 1311
 Christie, R.G. 814
 Christochowitz, E.E. 1994
 Chu, F.F. 1094
 Chu, W.H. 485
 Chu, Y.I. 523
 Chujo, M.T. 524
 Chundurwar, R.D. 1998
 CIAT 1474
 Cibrian Tovar, D. 697
 Ciglar, I. 352
 Cilek, J. 872
 Ciociola, A.L. 558
 Cisneros V., F.H. 1681
 Cividanes, F.J. 486
 Claflin, S.H. 1211
 Clark, D.A. 551
 Clark, R.K. 1342,1471,
 1859
 Clarke, L.J. 1194,1238
 Clarke, R.G. 583
 Clement, S.L. 1022
 Clercq, R. De 617
 Cleveland, T.C. 134
 Cloutier, C. 963
 Coates, D. 929
 Coch, F. 1828
 Cody, W.J. 317
 Cohen, A.C. 1910
 Cohen, M. 948
 Colbaugh, P.F. 1362
 Colbo, M.H. 757,1794
 Cole, L.R. 457
 Coles, R.B. 49
 Coli, W.M. 163
 Collett, G.C. 880
 Collier, S.S. 1391
 Collins, M.D. 2043
 Collyer, E. 424
 Colombia, Centro Inter-
 nacional de Agricultura
 Tropical 1587
 Colombia, Sociedad Colom-
 biana de Entomologia
 1708
 Colomer, P. 342
 Colonnelli, E. 1322
 Combes, C. 1838
 Compton, S. 1451
 Commonwealth Forestry
 Review 189
 Compton, J. 271
 Concatto, L.C. 82
 Connecticut Agricultural
 Experiment Station 667
 Connell, W.A. 122
 Conway, K.E. 827
 Cookson, L. 692
 Cooper, D.J. 1120
 Cooper, R. 1285
 Coorey, D. 1268
 Coppel, H.C. 461
 Corbin, F.T. 70
 Cordingley, C.L. 589
 Corcoran, R.J. 1573
 Cordo, H.A. 814,1877
 Coremans-Pelseneer, J. 225
 Corliss, J.O. 1292
 Cornelius, M. 80
 Cornell, H.V. 1732
 Correa Caldas, R. 1170

- Cortes, R. 418
 Coscaron de Larramendy, M.C. 1835
 Costa, E.C. 357
 Costello, R.A. 855
 Cothran, W.R. 60
 Cottrell, C.B. 374
 Couch, T.L. 745
 Couilloud, R. 1636
 Coulson, J.R. 1319
 Coykendall, R.L. 1266
 Crabbe, J.R. 741
 Creighton, C.S. 1406,1608
 Crocker, R.L. 499
 Croft, B.A. 157,1138, 1383,1385,1888
 Croizier, G. 886,887, 1636,1661
 Croizer, L. 1636
 Crompton, C.W. 316
 Crosby, T.K. 38
 Cross, J.V. 1242
 Crouzel, I.S. de 449,450, 1152,1846
 Crowder, L.A. 1376
 Cruz, C.G. de la 1027
 Cruz, J. de la 1171
 Cruz, Y.P. 2044
 Cueva C., M.A. 1534,1535, 1536,1537
 Cugier, J.P. 113
 Cui, J.Y. 26
 Culin, D.D. 76
 Cullen, J.M. 821,1860
 Cullen, R.E. 821
 Cunningham, J.C. 1916
 Cupello, J.M. 1790
 Curl, E.A. 1471
 Currado, I. 1224
 Curran, J. 1393,1951, 2030
 Curry, S.J. 1217
 Curtis, C.E. 1144
 Dabbour, A.I. 1769
 Dabek, A.J. 311
 Dabi, R.K. 1074
 Dahl, C.J. 1793
 Dame, D.A. 890,1810, 1820
 Dan, Z.M. 1641
 Daneshvar, H. 425
 Danon, V. 562
 Dantas, J.L.L. 559
 Dathanarayana, W. 154, 622
 Dariichuk, Z.S. 1730
 Darwazeh, H.A. 263
 Das, B.B. 1635
 Das, S.K. 1963
 Dass, R. 1491
 Datta, S. 138
 Davet, P. 1919
 David, H. 1016,1543, 2017
 Davidson, E.W. 1285
 Davies, J.C. 608
 Davis, D.E. 1250
 Davis, D.R. 623
 Davis, D.W. 1046
 Davison, R.H. 1578
 Dean, D.A. 1642
 De Bach, P. 465,1154,1155, 1929,1931,2042
 De Barjac, H. 285
 Debolt, J.W. 1481
 Dedet, J.P. 278
 Deguchi, K. 507
 Dei, E.A. 670
 Deighton, P.J. 821
 Delecolle, J.C. 753
 Delfosse, E.S. 821
 Deloach, C.J. 821,1877
 Delobel, B. 980
 De Lucca, A.J., II 1897
 Delucchi, V. 1166
 Delvare, G. 1141,1938
 De Maio, J.D. 1807
 Dempster, J.P. 2071
 Denmark, H.A. 1461,1462
 Desai, S.A. 554
 Deschamps, N. 1209
 Deshevkh, N.D. 1799
 Devaiah, M.C. 137
 Devanesan, S. 1032
 Devantier, B.P. 551
 Devaux, A.J. 115
 Devdariani, Ts.G. 197
 Devi, M.R. 1029
 Dewhurst, C.F. 784
 Dhaduti, S.G. 1261
 Dhawan, A.K. 597,1634
 Dhillon, M.S. 734
 Dhiman, R.C. 1829
 Dhiman, S.C. 1829
 Diaw, O.T. 1841
 Diaz Azpiazu, M. 363
 Diaz Sanchez, J. 1695
 Dibble, J.E. 1144
 Dicke, E.B. 1772
 Dickerson, W.A. 429
 Dijkman, H. 531
 Dikyar, R. 1569
 Dillard, C.R. 740
 Dimond, J.B. 1229
 Dimova, V.I. 1845
 Ding, D.C. 2014
 Dirimanov, M. 1660
 Dittrick, L.E. 2006
 Divakar, B.J. 1121
 Dively, G. 214
 Dively, G.P. 808
 Dix, M.E. 1221
 Dixit, R.B. 37
 Dixit, R.S. 1267
 Dixon, A.F.G. 2043
 Dixon, W.N. 696
 Dmitriev, P.P. 1728
 Doberski, J.W. 683
 Dobroserdov, S.G. 156
 Doganlar, M. 586,915
 Doller, G. 888
 Donaldson, M.D. 1414
 Dong, T.T. 1116
 Donovan-Peluso, M. 885
 Doodeman, M. 2027
 Dorokhova, G.I. 1670
 Douwes, P. 1425
 Dowd, P.F. 1321,1848
 Dowell, R.V. 724,865,1677, 1678,1889
 Drea, J.J. 889
 Dreishpoun, Y. 637
 Drevet, C. 584
 Drooz, A.T. 207,1411
 Drummond, F.A. 2068
 Du, J.W. 2014
 Dubbers, F.A.A. 821
 Dubey, A.N. 323
 Dubos, B. 943
 Duelli, P. 453
 Duffield, R.M. 2019
 Dugat, P.S. 1311
 Dulmage, H.T. 1109
 Dunn, P.H. 821,1319
 Dupras, E.F., Jr. 1783
 Durden, W.C. 1873
 Durling, D.S. 1238
 Durso, S.L. 1807
 Dutcher, J.D. 1146
 Dutt, K. 1257
 Dutt, N. 1375,1492
 Dutta, B.K. 1617
 Duyn, J.W. van 73
 Dvortsova, R.A. 194
 Dyadechko, N.P. 25
 Dyke, J.M. van 328
 Dyurich, G.F. 878
 Dzerzhinskii, V.A. 1799
 East, R. 552
 Easwaramoorthy, S. 1016, 2017
 Eby, J.E. 268
 Echandi, E. 1471
 Echevarria Costa, G. 529
 Edmunds, M. 1722
 Edson, K.M. 463
 Edward, J. 1311
 Edwards, C.R. 841
 Edwards, G.B., Jr. 1004
 Edwards, P.B. 690
 Edwards, T.L. 224
 Eger, J.E., Jr. 1454,1734
 Egerton, J.R. 1802
 Eggenkamp-Rotteveel 442
 Eguchi, K. 1191
 Ehler, L.E. 426
 Eichhorn, O. 1223
 Eikenbary, R. 1402
 Ekbo, B.S. 117,1043, 1086,1087
 Elad, Y. 585,1100,1246, 1993
 El-Agoze, M.M. 1766,2022
 El-Badry, E. 716,969
 El-Badry, E.A. 604
 El-Deeb, S.T. 1472
 Elenkov, E.S. 1088,1373
 El-Gholl, N.E. 1342,1471,1859
 El-Haidari, H.S. 1706
 El-Heneidy, A.H. 541
 El-Kifli, A.H. 1542,2013
 Ellenbrock, F.J.M. 442
 Elliott, D.P. 855
 Elliott, H.J. 689
 Ellis, C.R. 15,55
 Ellis, E.A. 410
 Ellis, J.G. 633
 Ellis, J.S. 1483
 Ellis, T.L. 493
 Ellwood, D.C. 944
 El-Magdoub, A.A.I. 778
 El-Magdoub, A.I. 290
 El-Maghraby, M.M.A. 991,992
 Elmer, H.S. 167
 El-Minshawy, A.M. 1472
 El-Nahal, A.K.M. 711
 El-Saadany, G. 1575
 El-Sawy, M.F. 290,778
 El-Sayed, I.A. 778
 Elsey, K.D. 1649
 El-Sharaby, A.M. 1645
 El-Sherif, H.K. 1472
 El-Sherif, S.I. 541,1839
 El-Sufty, R. 1482,1521
 Emden, H.F. van 821
 Emge, R.G. 789
 Endo, Y. 1001
 Endrodi, S. 1429
 Entwistle, P.F. 189
 Eremina, L.G. 765
 Ermakova, R.M. 1795
 Ermolaev, V.P. 227
 Ershova, N.I. 103
 Ertle, L.R. 1551
 Erwin, N. 1551
 Esayan, A.G. 673
 Escobar, A.L. 1171
 Escudero, G.S. de 452
 Espinel, R. 573
 Espin, D.H. 313
 Essen, F.W. van 261
 Estey, R.H. 2075
 Etienne, J. 643
 Etzel, L.K. 1336
 European Federation of Parasitologists 284
 European and Mediterranean Plant Protection Organization 110
 Euzeby, J. 287
 Euzeby, J.A. 781
 Evans, A.A.F. 1902
 Evans, H.C. 1696,1719
 Evans, H.F. 368,1903
 Eveleigh, E.S. 1007
 Evenhuis, N.L. 474,938
 Everson, P.R. 857
 Evstratova, N.Ya. 193
 Ewart, W.H. 167
 Exley, E.M. 123
 Ezeta, F.N. 559
 Ezhova, S.A. 211
 Fabres, G. 87,88,1675
 Fabritius, K. 1824
 Faculteit van de Landbouwwetenschappen Gent 439
 Fadeev, Yu.N. 1974
 Fahmy, M. 1472
 Fain, A. 1834
 Faivre, M.-L. 715
 Faivre-Amiot, A. 715
 Fallas, B., F. 408
 FAO 1183
 Fargerlund, J. 1501
 Farghali, H.T. 1052
 Farghaly, H.T. 600
 Fargues, J. 113,146
 Farias, A.R.N. 559
 Farley, D.G. 272,275
 Farooqi, S.I. 1422
 Farmer, N. 677
 Fassuliotis, G. 1406
 Faulds, W. 1218
 Fauvel, G. 1665
 Favinger, J.J. 301
 Fay, P.K. 1851
 Fayad, Y.H. 1542,2013
 Fedde, G.F. 196
 Federici, B.A. 263,1823
 Fedorov, I.A. 1728
 Feltwell, J. 1600
 Feng, X.C. 744
 Feng, X.X. 26
 Fergusson, N.D.M. 403
 Ferran, A. 480,854,1403
 Ferrer, R. 1877
 Fichter, B.L. 349,2024
 Fiddick, R.L. 1193
 Filatov, V.P. 892
 Fincher, G.T. 359
 Finlayson, D.G. 575
 Finlayson, T. 205
 Finney, J.R. 881,1792, 1793,1794,1912
 Finney, K.F. 1772

- Firth, A.C. 1578
 Fischel-M., M. 1693
 Fisher, T.W. 332
 Fitton, M.G. 1417,1418
 Fitzpatrick, G.E. 1678,1889
 Flaherty, B.R. 1248,1767
 Flaherty, D.L. 1102
 Flechtmann, C.H.W. 793
 Flint, H.M. 125
 Flint, M.L. 63,843
 Fluit, N. van der 1994
 Focks, D.A. 730,890,1015, 1785
 Foda, M.S. 1645
 Fominykh, V.G. 765
 Formento, A. 1403
 Forno, I.W. 821,825,1872, 1874
 Forti, L.C. 486
 Fosse, E.S. del 821
 Foster, R.N. 1056
 Foster, W.D. 1126,1471, 1656
 Fournier, D. 178
 Frank, J.H. 347
 Frankenhuyzen, K. Van 1445
 Franklin, R.T. 481,1221,1731
 Frankowski, J.P. 488
 Franz, J.M. 437
 Franzmann, B.A. 44,107
 Frazer, B.D. 2047,2051, 2052,2053,2054
 Frazier, J.L. 219,1899
 Freeman, T.E. 821,827
 Frenkina, G.I. 211
 Fresa, R. 1967
 Frick, K.E. 1325,1326
 Frommer, R.L. 758,1806, 1819
 Frost, C. 1615
 Fry, W.E. 846
 Fu, W.J. 2014
 Fuhrer, E. 1482,1521
 Fuhrmann, H. 684
 Fukuda, T. 743,745
 Funasaki, G.Y. 1466
 Furniss, M.M. 697
 Fuxa, J.R. 616,1506
 Gabarra, R. 580
 Gabriel, B.P. 522
 Gafurov, A.K. 1436,1952
 Gage, S.H. 940
 Gagen, S.J. 1055
 Gagne, R.J. 1426
 Gaj-Rostalska, K. 234
 Gal, T. 636
 Galani, G. 517,863
 Galante, E. 1315
 Galassi, L. 978
 Galichet, P.F. 1552
 Galil, R.A. 778
 Gallego, C. 30
 Gallo, D. 1533
 Ganchev, G. 669
 Gao, R.X. 1680
 Garcia, C. 98,743,745
 Garcia, M.A. 345
 Garcia, R. 265,266
 Garcia, R.G. 464
 Garcia, V. 854
 Gardner, S.L. 780
 Gardner, W.A. 616,1058, 2039
 Gargiullo, P.M. 1750
 Garland, J.A. 367,708
 Garner, J.W. 89
 Gaugler, R. 277,1295, 1296,1815,1980
 Gauld, I.D. 375,893,1417
 Gay, J.L. 1871
 Gaynor, D.L. 800,1328
 Geden, C.J. 1830
 Geest, L.P.S. van der 155
 Geoffrion, R. 628
 Gemignani, P. 1739
 Genduso, P. 1165
 Gennadiev, V.G. 1412
 Georgevitis, R.P. 704
 Georgiou, G.P. 747
 Georgis, R. 1237,1472
 Gerling, D. 1177
 German Federal Republic, Biologische Bundesanstalt für Land-und Forstwirtschaft in Berlin und Braunschweig 792
 Germanov, A. 1398
 Gerson, U. 1502
 Gevrey, J.P. 781
 Ghani, M.A. 127
 Gharably, Z.El 821
 Gharib, A.H. 1472
 Ghoneim, S. 821
 Ghorpade, K.D. 921,1758
 Ghosh, D. 1596,1963
 Gibbs, P.H. 758,1806, 1819
 Gilbert, L.E. 1870
 Gilbert, N. 2047,2051,2053, 2054,2055
 Gilbey, D.J. 1330
 Gilkeson, L. 1611
 Gill, B. 2047,2052
 Gill, G.S. 1078
 Gillespie, D.R. 205
 Gilstrap, F.E. 1693
 Gindrat, D. 436,947
 Girolami, V. 1738
 Glancey, B.M. 1308
 Glas, P.C. 1601
 Glaze, N.C. 1471
 Glen, D.M. 1658
 Gloria B., R. 1662
 Gnanarethinam, J.L. 821
 Gnataash, V.I. 1040
 Go, L. 1641
 Goeden, R.D. 821
 Goettel, M.S. 1909
 Gogerty, R. 820
 Gogoladze, G.G. 1347
 Goh, B.S. 494
 Goh, K.S. 94
 Gohda, M. 1503
 Goldberg, L.J. 264
 Golini, V.I. 1292
 Goolaman, K. 1311
 Gomez Sousa, J. 23
 Goncalves, H.M. 75
 Gonzalez, D. 78
 Gonzalez Alvarez, M. 469
 Gonzalez Valenzuela, M. 1647
 Gorbunov, A.F. 676
 Gord, G. 386
 Gordhu, G. 1937,2015
 Gordon, R. 1791,1979
 Gordon, R.D. 1428
 Goryunova, V.N. 1351
 Gosling, D.C.L. 423
 Gotz, P. 995
 Gouda, R.R. 137
 Goujet, R. 148
 Gouteux, J.P. 909
 Govindan, R. 137
 Goyer, R.A. 1751
 Graber, M. 287,781
 Grafton-Cardwell, E.E. 961
 Graham, H.M. 126
 Grant, C.D. 262
 Grasso, V. 1239
 Gravena, S. 513,514, 1613,1691
 Graves, C.L. 838
 Graves, R.C. 838
 Greathead, D.J. 431,1826, 1945
 Grebennikov, S.V. 371
 Grechkanov, O.M. 81
 Green, B. 1749
 Greenberg, S. 649
 Greenberger, A. 1993
 Greenblatt, J.A. 1723
 Greene, G.L. 1574,1581
 Greenstone, M.H. 350
 Grewal, G.S. 1072,1594
 Griffiths, C. 1054
 Griffiths, G.C.D. 1946
 Grillo Ravelo, H. 23,469
 Grinberg, Sh.M. 1908
 Grinstein, A. 1993
 Grissell, E.E. 1424,1940
 Grogan, W.L., Jr. 1427
 Groner, A. 437,492,888, 1445
 Gross, H.E., Jr. 1494
 Gross, H.R., Jr. 1415,1922
 Gross, P. 495
 Gross, R.S. 315
 Groves, R.H. 1860
 Grula, E.A. 997,1672
 Grumberg, J. 451
 Gu, S.W. 1563
 Guerdoux, J. 1395
 Guerra, J.A. de 1622
 Guevremont, H.C. 688
 Gukasyan, A.B. 1510
 Gulii, V.V. 1982
 Guppy, J.C. 55,534
 Gupta, J.S. 37,563,1593
 Gupta, N.K. 1257
 Gurando, E.V. 221
 Gurdip Singh 1072,1594
 Gurevitz, E. 649
 Gur'yanova, T.M. 1226
 Guseinov, A.R. 754
 Gusev, G.B. 111
 Gutierrez, A.P. 64,505, 2047,2050
 Guy, E.M. 620
 Haack, R.A. 1207
 Habeck, D.H. 829,1356
 Habib, A. 600
 Habib, M.E.M. 345
 Hadar, E. 1246
 Hadar, Y. 1246
 Haeselbarth, E. 1925
 Hafez, M. 898,592,593, 1542,2003,2004,2013
 Hafez, S.M. 716,717,718, 719
 Hagen, K.S. 498,505,570
 Hagley, E.A.C. 158,1890
 Hagstrum, D.W. 1768
 Hague, N.G.M. 1237
 Haines, C.P. 1770
 Hall, D.W. 410
 Hall, G.C. 1946
 Hall, J.C. 78
 Hall, R.A. 487,862, 1627,1703
 Hall, R.W. 426
 Hallman, G. 594
 Hamburg, H. van 1639
 Hamlen, R.A. 1761,1762
 Hammock, B.D. 2005
 Hamon, J. 1288
 Hanel, H. 867
 Hansen, K. 759
 Haq, N. 739
 Hara, A.H. 364,483,1735, 2074
 Harcourt, D.G. 55,534
 Hardin, B. 877
 Harding, J.B. 1792
 Hardy, R.J. 547
 Hare, J.D. 310
 Harlan, H.J. 288
 Harley, K.L.S. 1872
 Harman, G.E. 101,1924,1993
 Harrap, K.A. 2040
 Harrell, E.A. 1415
 Harrington, B.J. 1499
 Harris, P. 821
 Harris, R.L. 295,1301
 Harris, V.E. 1900
 Hart, W.G. 173,464,1693
 Hartley, M.J. 550
 Hartley, W.J. 1802
 Hartmann, G.C. 885
 Hartstack, A. 354
 Hasan, S. 821,1339,1341, 1522,1861
 Haseler, W.H. 821
 Hashimoto, K.I. 958
 Hassan, E.M. 778
 Hassan, S.A. 1892,1994
 Hassell, M.P. 1012,2061
 Hastings, A. 1527
 Hauschild, K.L. 163
 Hawkes, R.B. 821,1333
 Hawkins, B. 2015
 Hayat, M. 400,1935,1936
 Haynes, D.L. 493,940,2068
 He, G.T. 742
 He, L.F. 2014
 Healing, T.D. 245
 Hecht, E.P. 1363
 Hedger, J.N. 944
 Hegazi, E.M. 133
 Heimsch, R.C. 2076
 Hekal, A.M. 969
 Heleenal, G.A. 250
 Helgesen, R.G. 468
 Hembree, S.C. 261,758, 1805
 Henderson, N.C. 54
 Henderson, S. 821
 Hendi, A. 1472
 Hendrickson, R.M., Jr. 879
 Hendrikse, A. 444
 Henis, Y. 585,1100,1246
 Hennebert, G.L. 413
 Henry, J.E. 937,1056
 Heong, K.L. 1523
 Hepting, K.T. 1876
 Herne, D.H.C. 1895
 Herrera, A., J.M. 1644
 Hertlein, B.C. 1287
 Heykal, I.H. 604
 Hibbin, J. 1749
 Hiepe, T. 1302
 Higa, S.Y. 1466
 Higashiura, Y. 204
 Hikichi, A. 1890

- Hill, R.L. 52
 Hirashima, Y. 521,523,524
 Hiscox, K.J. 273
 Hislop, R.G. 163,1139,1160, 2065
 Ho, C.C. 1037
 Ho, T.H. 923
 Hodek, I. 1498
 Hodosy, S. 1885
 Hoebeke, E.R. 920
 Hoffman, J.D. 98,429
 Hoffmann, D.F. 1145
 Hoffmann, J.H. 821
 Hofmeister, F.M. 821
 Holzel, H. 932,933
 Hominick, W.M. 1393,1951
 Homriti, M.El 1685
 Hondru, N. 533,571
 Honek, A. 477,2060
 Hooker, M.E. 1584
 Hopkins, T.L. 751
 Horn, D.J. 1530
 Hornby, J.A. 1287
 Horsburgh, R.L. 160,1140
 Horton, D.L. 77
 Hosking, J.R. 821
 Hostettler, N. 308
 Hostettler, N.A. 821
 Hostounsky, Z. 112,882, 1898
 Hotchkin, P.G. 2073
 Hoti, S.L. 1278
 Hou, J.W. 1697
 House, V.S. 136
 Hower, A.A. 1487
 Hoy, M.A. 162,860,1008, 1386,1387
 Hsiao Kang-Jou 216
 Huang, C.M. 392
 Huang, D.P. 1563
 Huang, P. 873
 Huang, W.L. 742
 Huang, Y.Y. 666
 Huber, J. 437,492,886, 887
 Huber, J.T. 1863
 Huddleston, E.W. 1869
 Huger, A.M. 1522
 Hughes, P.R. 870
 Huis, A. van 1021
 Huiza, I.R. de 1959
 Husband, R.W. 908
 Hussey, N.W. 1703
 Hutchins, A.S. 1241
 Hwang, C.Y. 1553
 Iacob, N. 856
 Ibrahim, A.A. 898,592,593, 2003,2004
 Idrar, M. 1955
 Ignatescu, I. 58
 Ignoffo, C.M. 72,98,743, 745
 Iheagwam, E.U. 1069
 Ikeda, J.K. 1303
 Ilcken, E.H. 295
 Il'enkova, K. 596
 Ilyaletdinova, S.G. 1289
 Im, H.B. 218
 Imbriani, J.L. 2031
 India, Department of Agricultural Research and Education 1473
 India, Indian Lac Research Institute 1782
 Indonesia, BIOTROP 1875
 Ingram, W.R. 612
 Injac, M. 1609
 Inozemtsev, A.A. 211
 International Organization for Biological Control of Noxious Animals and Plants 142,147,164,338, 1161
 International Society for Horticultural Science 231
 Ionaitis, V.P. 1955
 Iperti, G. 1498
 Ipinza, J. 451
 Ireson, J.E. 818
 Ironside, D.A. 568,1573
 Irving, N.S. 824
 Isa, A.L. 1839
 Isakulova, D.I. 92
 Isenhour, D.J. 1061,1526, 2023,2056
 Ishaaya, I. 1891
 Ishankulova, M. 1115
 Ismail, I.I. 1575
 Issi, I.V. 1953
 Issu, J.V. 756
 Itoh, H. 720
 Ives, P.M. 2047,2048,2049, 2051,2054
 Ives, W.G.H. 685
 Iwanami, S. 1444
 Iwasa, Y. 1006
 Izhar, Y. 184,649,650, 1168
 Izhevskii, S.S. 1347,1974
 Jachmann, F. 470
 Jackson, C.G. 460
 Jackson, T.A. 552
 Jackson, W.B. 1250
 Jacob, A. 1031,1032, 1035,1507,1517
 Jacob, S. 1478
 Jacob, S.A. 141
 Jacob, S.S. 727
 Jacquemard, P. 1636
 Jacques, R.P. 1603
 Jacquot, M. 584
 Jadhav, L.D. 851,1379
 Jadhav, S.S. 1179
 Jakhmola, S.S. 1595
 Jaksic, F.M. 1251,1252, 1253
 Jambulingam, P. 1797
 James, B.O. 1311
 Jamnback, H. 746,750,1296, 1297
 Jansson, H.B. 1468
 Jaques, R.P. 485,1131, 1915
 Jarda, T. 183
 Jarraya, A. 1485
 Jatala, P. 115
 Jaworska, M. 624,625
 Jayanth, K.P. 1984
 Jayaraj, S. 1774
 Jayaramaiah, R. 554
 Jeervaratnam, K. 1692
 Jermy, T. 578
 Jiang, D.Z. 603
 Jimenez, N.C. 1105
 Johansen, R.M. 681
 Johnson, D.R. 1255
 Johnson, D.T. 1138
 Johnson, J.B. 498
 Johnson, M. 1677
 Johnson, S.J. 962,1579
 Johnston, B.G. 427
 Jones, A.L. 1888
 Jones, D. 421,2005
 Jones, G. 421,2005
 Jones, R.E. 1983
 Jones, S.L. 131,136,369
 Jones, W.A., Jr. 209
 Joos, J.L. 162
 Jordan, A.M. 1820
 Jordan, J.L. 1866
 Jose Alves, E. 1170
 Joseph, K.J. 472
 Joshi, J.C. 1178
 Jouan, B. 1127
 Jouvenaz, D.P. 883,1976
 Joy, P.J. 1478
 Juillet, J.J. 707
 Juliano, S.A. 777
 Julien, M.H. 821,828
 Kabilov, T.K. 1392
 Kadkao, S. 2012
 Kadyrova, M.K. 764,1952
 Kain, W.M. 552,553
 Kajita, H. 1614
 Kakuliya, G.A. 197
 Kalalova, S. 1409
 Kalashnikova, G.I. 1602
 Kale, A.J. 553
 Kalinichenko, V.A. 1000
 Kalmakoff, J. 48,941,1281
 Kalshoven, L.G.E. 1985
 Kaltenbach, R. 115
 Kamijo, K. 398,902
 Kamiyo, K.A. 390,391
 Kanagaratnam, P. 120,1627
 Kandil, M.M. 2029
 Kandybina, M.N. 227
 Kannan, N. 1184
 Karadzhov, S. 340,545,876
 Karelin, V.D. 102
 Kariluoto, K.T. 360
 Karim, A.N.M.R. 322
 Karimov, Kh. 1115
 Kartasheva, T.T. 1659,1671
 Kashio, T. 858
 Kasimova, G.A. 133 2
 Kasno 1358,1875
 Katan, J. 1993
 Kaupp, W.J. 355
 Kawauchi, S.E. 985
 Kay, M.K. 1197,1198
 Kaya, H.K. 364,483,1735, 1781,2033,2073,2074
 Keane, P.J. 490
 Kellen, W.R. 1145
 Keller, S. 65,414,1441
 Kelly, D.C. 1749,1903, 2040
 Kelly, D.M.T. 1722
 Kelly, J.F. 740
 Kelton, L.A. 1628
 Kenneally, K.F. 1855
 Kennedy, B.H. 1520
 Kennedy, G.G. 1508
 Kenneth, R. 1993
 Kenneth, R.G. 922,1440
 Kennett, C.E. 1102
 Kenward, R.E. 1254
 Keogh, W.J. 821
 Keremidchiev, M. 669
 Kerr, A. 633
 Kerr, T.J. 706
 Kerry, B. 1655
 Kfir, R. 466,965,968,2000
 Khalaf, K.T. 1999
 Khalil, F.M. 601,678,982,983
 Khaleque, M.A. 1780
 Khalmatov, N.M. 1352
 Khan, E. 1176
 Khan, M.Y. 389,1939
 Khandge, S.V. 1619
 Khel'vas, E.G. 581
 Khlistovskii, E.D. 1412
 Khlopunov, E.N. 1421
 Khodyrev, V.P. 572
 Khristova, E. 1088,1373
 Kido, H. 1102
 Kierych, E. 381
 Killick-Kendrick, R. 1821
 Kilochitskii, P. Ya. 254
 Kilambi, R.V. 821
 Kim, C.H. 215
 Kim, C.W. 218,1459
 Kim, Y.S. 218
 Kimati, H. 1083
 King, D.S. 412
 King, E.G. 429,512,1014
 King, P.D. 47
 Kingsley, P.C. 1499
 Kingsolver, C.H. 789
 Kinn, D.N. 695
 Kinzer, R.E. 369
 Kiorboe, T. 831
 Kirby, M. 677
 Kirkland, R.L. 821
 Kishiyama, J.S. 94
 Kismir, A. 1107,1404
 Kissam, J.B. 761
 Kitayama, C.Y. 1764
 Kitching, R.L. 1983
 Kizilova, E.R. 150
 Klein, M. 1464,1611
 Klemperer, H.G. 297,1843
 Kloepper, J.W. 1471
 Klunker, R. 1907
 Klyueva, M.P. 334,335
 Knell, J. 910
 Knop, N.F. 162,1387
 Kobayashi, M. 527,2012
 Kobylins, G.J. 328
 Kobzar, V.F. 673
 Kodomari, S. 658
 Kodys, F. 112
 Koepke, C.H. 1090
 Kohler, G. 655
 Kok, L.T. 302,821,875, 1321,1847,1848,1867
 Kokhredize, G.G. 1699
 Kolaib, M.O. 133
 Kolasa, J. 1949
 Kolbezen, M.J. 1389
 Kontzonis, A. 1673
 Kopaneva, L.M. 530
 Korchak, G.I. 509
 Korytkowski, C.A. 1189
 Korytkowski G., C.A. 1705, 1943
 Korea, Entomological Society 446
 Kornobis, S. 34
 Kosovets, V.S. 1089
 Kotani, M. 916
 Kovalev, O.V. 1865
 Kow, C.T. 1519
 Kozarzhevskaya, E.F. 709
 Kozlov, M.A. 903
 Krafft, P.L. 1529
 Krambias, A. 1673
 Kramer, J.P. 760,1293,1827
 Kramer, R.D. 288
 Kranz, J. 943
 Kreasky, J.B. 173

- Kremer, M. 753
 Krieg, A. 437,492,871, 1249,1522
 Krishnaiah, K. 1597
 Kroha, M.J. 98,743,745
 Krysan, J.L. 1921
 Kryzhanovskaya, T.V. 119
 Kubinski, A.M. 491
 Kudler, J. 1720,1753
 Kudon, L.H. 694,1201
 Kudryavtsev, V.S. 28
 Kugrens, P. 1883
 Kuhlman, E.G. 165
 Kuhr, R.J. 949
 Kusenkov, V.M. 193
 Kula, E. 1227
 Kulasekera, V.L. 526
 Kulkarni, K.A. 86
 Kumar, N.G. 86
 Kumar, V.V.S. 1185
 Kumari, K.R.N. 1271
 Kuo, S.-C. 1240
 Kuperstein, M.L. 351,1039
 Kurashvili, B.E. 197
 Kurbanov, G.G. 1457
 Kurdov, M. 595
 Kurihara, T. 735
 Kurt, L.A. 1089
 Kurup, N.K. 1016,2017
 Kuruvilla, S. 1035,1507
 Kusigemati, K. 377,1446
 Kuzin, A.A. 28
 Kuzmanova, I. 1192
 Kybal, J. 1409
 Kvamme, T. 699
 Kvyatovskaya, V.K. 1795
 Laan, P.A. van der 1985
 Laarman, J.J. 241,242,243,244
 Labanowski, G.S. 1130
 Lacatusu, M. 27
 Lacey, J.M. 1282
 Lacey, L.A. 1282
 Lagowska, B. 1076
 Lai, P.Y. 1466
 Lai, Y.L. 1559
 Laine, K.J. 687
 Laing, D.R. 1915
 Laing, J.E. 11,1131,1603
 Laird, M. 257,278,434, 1833
 Lakhani, K.H. 2071
 Lakshmanan, M. 1184
 Lal, S.S. 1588,1590
 Lam, J.J., Jr. 1649
 Lamb, R.J. 251,303
 Lambert, M.G. 551
 Lanciani, C.A. 252
 Landa, Z. 1615
 Lange, W.H. 94
 Langenbruch, G.A. 1994
 Langstrom, B. 1236
 Lara, L. 1712
 Laraichi, M. 1685,2007,2008, 2009,2010
 Larget, I. 285,1279, 1280,1821
 Larroque, M.M. 480,854,1403
 Larson, A.D. 1060,1897
 Larsson, R. 276
 La Salle, J. 1929
 Lashomb, J. 214
 Latge, J.P. 412,1528
 Latham, M.J. 944
 Laudeho, Y. 180
 Launay, H. 1776
 Laundon, G.F. 1864
 Laveissiere, C. 909
 Law, S.E. 1605
 Lawrence, P.O. 960,1374, 2046
 Lazareva, A.I. 194
 Learmonth, S.E. 1025,1033
 Learned, L.W. 1273,1787
 Lebedinets, N.N. 891
 Le Cato, G.L. 770
 Lecoustre, R. 662
 Lecrone, S. 853
 Lee, G.A. 788
 Lee, H.S. 651
 Lee, J.M. 1844
 Lee, Y.B. 1553
 Leeper, J.R. 623
 Legner, E.F. 274,332,591, 1355,1826
 Legotai, M.V. 96
 Le Maitre, A. 1188
 Lembi, C.A. 318
 Lenteren, J.C. van 441,442, 1601,1994,2042
 Leong, K.L.H. 491
 Lepage, M.G. 1653
 Leppla, N.C. 429
 Leslie, A.J., Jr. 328
 Leslie, G.W. 1539
 Lesteva, E.E. 1659,1671
 Leu, L.S. 1518
 Leuschner, K. 557
 Leventer, H. 835
 Levin, D.B. 1603
 Levine, E. 1022
 Levinson, S.O. 1336
 Levy, R. 1276,1287
 Lewis, F.B. 674
 Lewis, W.J. 615,1415,1494, 1524,1922
 Li, J.H. 653
 Li, K.W. 26
 Li, S.Z. 26
 Li, T.X. 361
 Li, Y.P. 603,1729
 Li, Y.W. 1729
 Liang, D.R. 1079,1080
 Liang, Z. 1442
 Lien, J.C. 257
 Lienk, S.E. 627
 Lieutier, F. 1222,1752
 Liguori, M. 1630
 Likhovidov, V.E. 193
 Liljestrom, G. 1157
 Lim, G.T. 5
 Lim, K.P. 433,549
 Lin, C.H. 653
 Lin, N.C. 1079
 Lin, S.J. 387
 Lin, X.Q. 1679
 Linardi, P.M. 768
 Lindahl, K.Q., Jr. 698
 Lindegren, J.E. 364,634, 1144,1204
 Lindenberg M. Mesquita, A. 1170
 Lindow, S.E. 1345
 Lindquist, R.K. 344,1243, 1612,1615,1762
 Line, R.F. 1340,1471
 Lingappa, S. 83
 Lingg, A.J. 1414,2076
 Lingren, P.D. 1574
 Link, D. 82,357
 Liotta, G. 170,1688
 Lipa, J.J. 806,912,1132, 1803
 Listov, M.V. 233
 Litsinger, J.A. 1027, 1562,1565
 Littlefield, J.L. 821
 Liu, D.M. 361
 Liu, J. 1559
 Liu, N.X. 742
 Liu, S.K. 1563
 Liu, Y.B. 26
 Livingston, J.M. 1582
 Livshits, A.E. 1347
 Livshits, I.Z. 621,1669,1670
 Lo, K.C. 1037
 Loan, C.C. 226,416,915
 Lodhi, Q.K. 1715
 Loerakker, W.M. 1864
 Lofgren, C.S. 1015,1976
 Logan, J.A. 1527
 Loginova, E. 1373
 Lohr, B. 1589
 Loiacono, M.S. 1651
 Loiacono de Silva, M.S. 1835
 Loker, E.S. 780
 Lomer, C.J. 1903
 Long, G.E. 2067
 Longhurst, C. 957
 Longo, S. 168
 Longstaff, B.C. 508
 Longworth, J.F. 941,1700
 Loomis, E.C. 280
 Loper, J.E. 1471
 Lopez, J.D. 1493
 Lopez, J.D., Jr. 473,1640
 Lord, J.C. 410
 Lordello, L.G.E. 3
 Lorenzato, D. 75
 Losel, D.M. 1871
 Loudon, B.J. 974
 Lozzia, G.C. 1736
 Lucas, J.R. 501
 Lucchini, F. 518,1170
 Luck, R.F. 701
 Luhman, J.C. 1419
 Lumaban, M.D. 1027
 Lumaret, J.P. 296
 Lummus, P.F. 1327
 Lundholm, B. 951
 Lutfallah, A.F. 1839
 Lynch, J.M. 944
 Lynch, R.E. 89
 Lyon, J.P. 79,178,1403
 Lysek, G. 1509
 Lysenko, O. 1720
 Lysikova, E.A. 1572
 Ma, G. 1081
 Mac Carter, L.E. 800,1328
 Macedo, N. 3
 Maceina, M.J. 1880
 Maceljski, M. 562
 Mack, T.P. 353
 Mackauer, M. 497,821
 Mackenzie, J.R. 575
 Mackenzie-Graham, L.L. 733
 Mac Lellan, C.R. 1131
 Mac Leod, D.M. 534,1576
 Mac Vean, C.M. 1914
 Maddox, D.M. 821
 Maddox, J.V. 56,1047
 Madkouri, M. 1707
 Madrid, F.J. 1203,1724
 Madrigal, C., A. 1711
 Maeda, R. 735
 Magie, R.O. 232,714
 Magomae, F.M. 330,331
 Mahadeo, C.R. 1545
 Mahmoud, T.T. 982,983
 Mahr, D.L. 907
 Mai, S.C. 1377
 Maia, O.S. 1613
 Maier, C.T. 1663
 Mailloux, G. 542
 Majchrowicz, I. 234
 Majori, G. 741
 Makar, P.V. 851,1379
 Maki, T. 812
 Maksimova, N.L. 81
 Maksimovic, M. 203
 Malagoli, M. 979
 Malakhov, V.V. 2032
 Malan, D.E. 821
 Malausa, J.C. 1554
 Malone, L.A. 149,2034, 2035
 Maltais, P.P. 707
 Malykhin, N.N. 336
 Mamaev, B.M. 1199,1200
 Mamaeva Kh. P.
 Mamet, J.R. 767
 Maninder 1495,1556, 1901
 Manjunath, D. 1026,2041
 Mankau, R. 116,177,435, 942
 Manolescu, H. 856
 Manonmani, L.M. 869, 1278
 Mansour, F. 151,152,1382
 Mansour, M.H. 981
 Mansveld, M.H. 442
 Marcos Garcia, M.A. 1450
 Margarit, G. 533
 Mariau, D. 662,1703
 Marin L., R. 1681
 Markkula, M. 1084,1381, 1400
 Markov, F.I. 92
 Marques, E.J. 1408
 Marsden, J.S. 427
 Marshall, D.R. 821,1317
 Marston, N.L. 1061
 Marti, C.D. 1253
 Martin, C. 1919
 Martin, D.F. 512
 Martin, G.E. 427
 Martin, P.B. 1574
 Martin, S.J. 1610
 Martinat, P.J. 166
 Martinez, E. 1109
 Martinez, Y.R. de 804
 Martinez, Z. 1695
 Martino, E. di 1162
 Martouret, D. 148,1661
 Masha, E. 1837
 Mashkina, L.G. 1602
 Masner, L. 394
 Mason, W.R.M. 895
 Massingill, M.J. 270
 Mathad, S.B. 1026,1261, 2041
 Mathai, S. 1035
 Mathavan, S. 250
 Mathew, G. 1118
 Mathew, K.P. 1397
 Mathis, H. 1283
 Mathur, K.C. 1034
 Mathur, M. 693
 Matile-Ferrero, D. 87
 Matskevich, N.V. 1089
 Matter, M.M. 1110
 Matthiesen, F.A. 776
 Matthiesen, J.N. 1314
 Matthyse, J.G. 1462
 Maw, M.G. 799,1335

- May, R.M. 1011,1012,1013, 2061
 Mayor, A.J. 1092
 Mazor, M. 1489,1490
 Mazzone, P. 118,181,341,343, 383,384
 McAlpine, J.F. 918
 Mc Caffrey, J.P. 160,1140
 Mc Calley, N.F. 1102
 Mc Clay, A.S. 821
 McClure, M.S. 223
 Mc Commas, D.W., Jr. 131
 Mc Cormick, S.J. 1309
 Mc Coy, P. 746,1813
 Mc Coy, R.E. 724
 Mc Crae, D.J. 1460
 Mc Cullough, F.S. 1837
 Mc Cutcheon, G.S. 1062
 Mc Daniel, S.G. 1642
 Mc Donald, G. 732
 Mc Donald, L.L. 1248
 Mc Fadden, T.L. 1608
 Mc Fadyen, P.J. 821
 Mc Fadyen, R.E. 821
 Mc Gaughey, W.H. 1772
 Mc Iver, J.D. 864
 Mc Kinney, D.E. 1876
 Mc Lain, D.K. 2057
 Mc Laren, I.W. 1091
 Mc Manus, M.L. 674
 Mc Murtry, J.A. 406,907, 2026
 Mc Neil, J.N. 963,1576
 Mc New, R.W. 1656
 Mc Pherson, B.A. 495
 Mc Pherson, B.R. 797
 Mc Pherson, J.E. 209,417, 1765
 Mc Williams, E.L. 314
 Mead, A.P. 738,1949
 Mead-Briggs, A.R. 238
 Medoni, L.F. 1908
 Medved, R.A. 591
 Mehra, B.P. 725
 Mehrotra, K.N. 613,1073
 Mehrotra, P. 1074
 Mehrotra, R.S. 84,1592
 Mehta, U.K. 1543
 Meinke, L.J. 1643
 Meisch, M.V. 1810
 Melching, J.S. 789
 Mellini, E. 977,978,979
 Mel'nikov, V.A. 729
 Mencher, E.M. 1908
 Mende, H.A. 109
 Mendis, C.L. 1814
 Mendoza Hernandez, F. 868
 Meneses Carbonell, R. 23, 529
 Menschoy, A.B. 74
 Mercer, C.F. 47
 Merle, P. du 1745
 Merluzzi, E.G. 1152
 Merriman, P.R. 490
 Mertins, J.W. 1497
 Mescua.B., V. 1536
 Meyer, H.J. 1273,1787
 Meyerdirk, D.E. 173,464,1143
 Meynadier, G. 1661
 Michael, P.J. 1399
 Michel, M.F. 1528
 Michelakis, S. 182,1690
 Mietkiewski, R. 234
 Mikhail'tsov, V.P. 67
 Miley, W.W. 328,329,1353
 Millan, J.M. 1171
 Miller, H.L. 1344,1471
 Miller, K.V. 1631
 Miller, L.A. 587,1098,1626
 Miller, M.C. 346
 Miller, T.W., Jr. 823,1287, 1348
 Mills, H.A. 1605
 Mills, N.J. 475,986,1525
 Miln, A.J. 40
 Milne, W.M. 1151
 Milner, R.J. 540,548,1439, 1571,2037
 Milsom, N.F. 1658
 Milstead, J.E. 677,1505
 Miltenburger, H.G. 437
 Mineo, G. 170,396,904, 970,971,972,1682, 1683
 Minko, G. 1754
 Minot, E.O. 1717
 Minshawy, A.E. 1472
 Mirchev, S. 669
 Mirkarimi, A.A. 1938
 Mirzoyan, S.A. 673
 Misaghi, I.J. 1471
 Misczak, M. 1372
 Misra, B.C. 1558
 Misra, M.P. 1213
 Mitchell, C.P. 324
 Mitchell, D.S. 821
 Mitchell, P.A. 893
 Mitrofanov, V.I. 621,1669, 1670
 Mittler, T.E. 936
 Mitzner, L.R. 326
 Miura, T. 524,749,1783
 Miyazaki, M. 812
 Miyamoto, S. 522
 Mizell, R.F. 219
 Mizell, R.F., III 866, 1220,1899
 Mizuguchi, Y. 1633
 Mohamed, U.V.K. 1185
 Mohan, N.J. 1597
 Mohyuddin, A.I. 510,821
 Moiseev, E.G. 104
 Moiseeva, N.V. 1602
 Mokry, J.E. 1794
 Molloy, D. 277,746,750, 1295,1296,1297, 1813,1815,1816
 Molloy, M.M. 799
 Monaco, R. 174,1101
 Monakov, S.S. 1822
 Mondet, B. 286,909
 Monro, J. 1853
 Monzon Chavez, S. 529
 Moon, R.D. 280,1010
 Moor, B. 291
 Moore, A. 1923
 Moore, A.D. 821
 Moore, I. 1826
 Moore, N.F. 1749
 Moraes, G.J. 793
 Moraes, G.J. de 2026
 Morales, J. 1487
 Moran, V.C. 821
 Morgan, P.B. 1298,1299
 Mori, H. 993
 Moroz, A.A. 1832
 Morris, O.N. 1228,1923
 Morris, T.J. 1391
 Morrison, G. 1524
 Morrison, R.K. 131,369, 473,1640
 Morse, J.G. 1385
 Mortensen, R.W. 1496
 Morton, L.H.G. 1722
 Moscardi, F. 1581
 Mostafa, S.A.S. 1769
 Motenkov, Yu.M. 1784
 Moulden, J. 1057,1331
 Mowat, D.J. 1610
 Moyle, P.L. 1781,2033
 Moyo, H.G. 780
 Muck, O. 1522
 Muesebeck, C.F.W. 393
 Mukerji, K.G. 693
 Muldrew, J.A. 685
 Mulford, B.L. 813
 Mulla, M.S. 263,734
 Mullenax, C.H. 200
 Muller, P. 1302
 Mulley, R.C. 1802
 Mulligan, F.S., III 267,749, 1812
 Munnecke, D.E. 1389
 Murai, E. 240
 Murakami, Y. 215,686
 Muraleedharan, N. 1698
 Murphy, P.J. 633
 Murphy, S. 2045
 Murray, C.A. 1355
 Murray, N. 1853
 Murthy, M.S. 106
 Murusidze, G.E. 1347
 Musamukhamedova, E.B. 581
 Mushak, P.A. 1354
 Mushtaq Ahmad 1360
 Muthukrishnan, J. 250
 Muzaffar, N. 127,128
 Myartseva, S.N. 1932
 Myers, D. 1854
 Myers, J.H. 306,821,1853
 Mynhardt, M.J. 900,1577
 Nachman, G. 2062,2063, 2064
 Nadarajan, L. 1186
 Nadejde, M. 27
 Nadvornaya, L.S. 544
 Nagalingam, B. 640
 Nagarkatti, S. 1984
 Nagel, H.G. 258
 Naik, L.M. 1619
 Nair, K.P.V. 1031
 Nair, M.R.G.K. 1397
 Nair, N.B. 727,1271
 Nair, N.R. 24
 Naito, A. 812
 Nakamura, H. 1225
 Nakano, K. 821
 Nakao, H.K. 1466
 Nandagopal, V. 1016,2017
 Napompeth, B. 1467
 Nara, J.M. 1920
 Narayana, K.L. 1029
 Narendran, T.C. 899,1185
 Narula, K.L. 1591
 Nasir, P. 1840
 Nassif, M.A. 1769
 Nasu, Y. 1205
 Natarajan, K. 1034
 National Agricultural Chemicals Association 845
 Naumann, C.M. 811
 Nazarova, Sh. 763
 Nealis, V. 2047,2053
 Nebeker, T.E. 219,866,1220, 1899
 Nichols, J.R. 468
 Nedstam, B. 1760
 Nel, M. 1156
 Nelson, B. 677
 Nelson, F.R.S. 1893
 Nelson, J.H. 758,1806,1819
 Nene, Y.L. 998
 Nesper, S. 1318
 Nesterov, V.A. 233
 Nettles, W.C., Jr. 976,1488
 Neuenschwander, P. 182,570, 1690
 Neumann, F.G. 1754
 New, T.R. 372,692
 Newell, I.M. 1143
 Newsom, L.D. 844,1060
 Nguma, J.F.M. 1837
 Nguyen, T.X. 1141,1938
 Nickle, D.A. 1768
 Nickle, W.R. 1978
 Nielsen, L.T. 1793
 Niemczuk, E. 1372
 Niemela, P. 687
 Nigh, E.A. 93
 Nikitenko, G.N. 670
 Nishida, T. 1401
 Nishiitsutsuji-Uwo, J. 1001
 Nishio-Wong, J.Y. 1501
 Niven, D.R. 798
 Noblet, R. 1058,2039
 Nolan, R.A. 257
 Norambuena M., H. 1041
 Nordbring-Hertz, B. 1468, 1509
 Nordin, G.L. 365,1918
 Nordlund, D.A. 615,1415, 1494,1922
 Normatov, Kh.A. 764,1952
 Notario, A. 30
 Novak, D. 1796
 Nucifora, A. 1759
 Nuorteva, M. 700
 Nuttal, M.J. 1195,1196
 Nutting, W.H. 404
 Oatman, E.R. 1997
 O'Brien, D.S. 1194
 Obrycki, J.J. 2020
 Odell, T.M. 429
 Odindo, M.O. 1512
 Odum, D. 677
 Oduro, K.A. 1070
 Oehler, D.D. 295
 Ogarkov, B.N. 1443
 Ogarkova, G.R. 1443
 Ogorodnikova, V.I. 194
 Ohba, M. 1444
 Ohkubo, N. 1153
 Ohnesorge, B. 506
 Oho, N. 658
 Ohr, H.D. 1389
 Okhotnikov, V.I. 1000
 Oldacre, S.L. 1810
 Oliveira, D.D. de 707
 Olofsson, E. 664
 Olszak, R. 1372
 Omel'yanets, T.G. 509
 Omelyuta, V.P. 544
 Ongarelli, M. das G. 560
 Ono, K. 1444
 Onsager, J.A. 1056
 Ooi, P.A.C. 99,100,1077
 Ormieres, R. 411
 Orozco, H. 1710
 Orr, C.C. 821
 Ortiz, P., M.S. 1959
 Ortu, S. 174
 Osborne, J.A. 1881
 Osgood, E.A. 1748
 Osman, A.A. 638,1472
 Otvos, L.S. 1230,1238
 Ouayogode, B.V. 1046
 Quayang, Z. 1680
 Overmeer, W.P.J. 859,2027

- Owens, C.D. 1410,1917
Pabst, G.S. 220
Pacey, C. 1284
Pacheco, L.C. 1106
Pacora R., J.F. 1618,1686
Padgett, P.D. 730
Pageaux, J.F. 980
Pai, C.G.A. 1272
Pal, R. 1264
Palaniswami, M.S. 561
Palaniswamy, M.S. 1591
Paliwal, K.C. 1595
Palzer, C. 689
Pamukchi, G.V. 334,335
Pan, Y.C. 5
Pan, Y.S. 10
Panchenko, V.P. 1884
Pang, Y. 1559
Panichi, J. de A.V. 82
Panicker, K.N. 1269
Panis, A. 169,179,1676
Pantua, P.C. 1027,1562
Pape, D.J. 1376
Papierok, B. 225,412,2038
Papp, J. 896
Papp, R.P. 1480
Paradis, R.O. 1134
Paraskakis, M. 182
Pardy, K.E. 1194
Parencia, C.R., Jr. 130
Pareva, V.V. 194
Parham, D.J. 427
Park, B.K. 218
Parker, C. 333
Parker, C.A. 35
Parker, N.J.B. 1911
Parkman, P. 1066,2011
Parlekar, G.Y. 1619
Parrella, M.P. 160,1140
Parshad, B. 1456,1491
Parshad, V.R. 1259
Pastor, S., Jr. 172
Patana, R. 460
Patel, B.K. 1479
Patel, R.C. 1123,1479
Patterson, R. 1298,1299
Patti, I. 168
Paul, A.V.N. 1491
Pavlinov, N.P. 935
Pavlov, A. 1568,1668
Pawar, A.D. 1121,1564
Pawar, V.M. 1113
Payne, C.C. 1515,1516
Payne, T.L. 696
Pearson, M.H. 1044
Pecora, P. 312,1858
Pedigo, L.P. 1580
Pek, L.V. 1969
Pekrul, S. 1672
Pelouille, M. 1469,1842
Pemberton, R.W. 821,1329
Peng, P.L.M. 1407
Peng, Y.S. 1844
Penman, D.R. 482,850, 1500
Percy, J. 1916
Pereira, C.E.F. 1408
Perepelina, L.V. 111
Pereshkol'mik, S.L. 211
Perez Rivera, R.A. 775
Persad, R.C. 1188
Peschken, D.P. 1850
Pesson, P. 1190
Peters, D. 1445
Petersen, J.J. 736,737,1274,1275, 1276,1790,1977
Peterson, B.L. 808
Peterson, B.V. 918
Petre, Z. 684,913,1514
Petruk, N.P. 1598
Pezzi, A. 1666
Phatak, S.C. 1471
Philip, B.M. 1031,1517
Philippe, R. 662
Phillips, P. 1366
Pickens, L.G. 762
Pienkowski, R.L. 815
Pierce, R. 1019
Pieterse, A.H. 821
Pietraszko, R. 617
Pilipyuk, V.I. 1934
Pillai, J.S. 1281,1909
Pillai, K.B. 24,1588, 1591
Pillai, K.S. 561
Pimentel, D. 279,1886, 1897,1988,1989
Pinnock, D. 677
Pintureau, B. 148,905, 973,1942
Piper, G.L. 813
Pipinkevich, N.L. 1416
Pires, C.A. 1277
Pirovano, I. 1994
Pitkin, L.M. 21
Pizzamiglio, M.A. 1694
PLANALSUCAR 6,7
Platzter, E.G. 253,268, 733,734,1788,2031
Plaut, H.N. 151,1382
Plummer, J.A. 1048
Poddar, S. 1596
Poddar, S.C. 1963
Podoler, H. 637,1489, 1490,1674
Podsiadlo, E. 1142,1449
Poinar, G.O., Jr. 909,1160, 1204,1209,1435,1836
Pointel, J.G. 401
Poitout, H.S. 1609
Polis, G.A. 1309,2070
Polo, E. 30
Polyakov, V.A. 1721
Ponomareva, I.A. 1412
Ponurovskii, A.Ya. 28
Poole, R.T. 1761
Popov, C. 532
Popova, R. 1373
Port, C. 121
Port, C.M. 1624
Posoiu, V. 856
Pottinger, R.P. 38
Powell, J. 2011
Powers, H.R. 1239
Prabhoo, N.R. 1272
Prado, E. 1096
Fralavorio, R. 647,648, 1689
Prasad, D. 1063
Prasad, V.G. 1597
Prasertphon, S. 1804,1817
Pree, D.J. 1890
Premchand, 1063
Prentice, M.A. 293,1310
Press, J.W. 1248,1767
Prewitt, J.C. 1015
Pribylova, M.V. 199
Price, P.W. 495
Prinsloo, G.L. 917,1577, 1960,1961
Pristavko, V.P. 1991
Pritchett, D.W. 190
Prokopy, R.J. 163,1139, 2065
Proverbs, M.D. 1131
Pruszyński, S. 579
Puchkov, A.V. 455,1040
Puckett, D. 1677
Pulido C., V.M. 1970
Pull, J.H. 1264
Pundir, V.P.S. 1365
Purcell, B.H. 1808
Purchas, T.P.G. 69
Purrini, K. 411,911
Purser, G.C. 866
Pushkar, E.N. 756
Puttaswamy 1024
Püttler, B. 555
Pye, A.E. 994,1504
Pyke, B. 354
Quednau, F.W. 688
Queneherve, P. 1127
Quezada, J.R. 12
Qiu, H.G. 2014
Quimby, P.C., Jr. 826,1359
Rabindra, R.J. 1774
Racioppi, J.V. 1402
Raddi, P. 1239
Radovsky, F.J. 936
Radwan, J. 1127
Radzievskii, L.L. 95
Radzivilovskaya, M.A. 599
Ragab, Z.A. 1052
Ragsdale, D.W. 1060
Ragusa, S. 170
Rai, B. 618
Rajagopalan, P.K. 1262, 1269,1797,1984
Rajan, P. 1650
Rajapakse, R.H.S. 526, 1692
Rajendra Singh 2001
Rajprecha, J. 185
Raju, A.K. 1112
Rakauskas, R. 1103,1667
Rakauskas, R.P. 590
Ram, C.S.V. 1995
Ramakers, P.M.J. 441
Ramakrishnan, N. 566,574, 1513
Raman, A. 1334
Ramasehiah, G. 821
Ramorska, W.A. 1798
Ramos, H.C. 1277
Ramos, P. 646
Ramoska, W.A. 751,1284,1786
Ramp, R.C. 1909
Rangadhamaiah, K. 565
Ranin, O. 914
Rao, A.S. 520
Rao, B.H.K. 1029
Rao, B.H.K.M. 1112,1178
Rao, B.N. 1029
Rao, J.G. 106
Rao, K.J. 565
Rao, P.K. 106,1178
Rao, P.N. 1438,1831
Rao, P.R.M. 1112
Rao, P.S. 85
Rao, R.S.N. 1648
Rao, R.V.A. 1112
Rao, Y.R.V.J. 1030
Rao, Y.S. 1030
Rapisarda, V. 977
Raske, A.G. 1230
Rassel, A. 1928
Rauf, A. 705
Ravensberg, W.J. 1994
Rawat, R.R. 90,1071
Raworth, D.A. 2047,2051, 2053,2054
Raychaudhuri, D. 927
Raychaudhuri, D.N. 927, 1596,1759,1962,1963
Raymond, M. 1777
Raymundo, F.A. 1027
Razuri R., V. 1555
Ream, C.H. 1778
Reardon, R.C. 201,1735
Redding-Coates, T.A. 929
Reddy, D.B. 1370
Reddy, D.N.R. 1024
Reddy, S.R. 726
Reddy, Y.N. 1831
Redolfi de Huiza, I. 1926
Reed, H.C. 1307
Reede, R.H. de 1664
Rees, N.E. 1056,1320
Reeves, B.G. 369
Regniere, J. 963
Reinecke, P. 943
Reinganum, C. 1055
Reisen, W.K. 739
Reissig, W.H. 623
Rejendra Singh 1486
Rejmanek, M. 2060
Remaudiere, G. 413,414, 1528
Remington, M. 758
Remington, M.P. 1806,1819
Remund, U. 588
Rendon, F. 1106
Resh, V.H. 936
Rezk, G.N. 600,969,1052
Rhode, R.H. 1693
Ribbeck, R. 1302
Ribeiro, H. 1277
Rice, E.R. 511
Richards, A.M. 479
Richards, K.T. 1332
Richardson, P.N. 1119
Richardson, R.G. 304
Richman, D.B. 1869
Ricker, D.W. 821
Ridgway, R.L. 369
Ridings, W.H. 1342,1471, 1859
Ridsdill-Smith, T.J. 1314
Rieb, J.P. 753
Riley, E.G. 803
Rilishkene, M.A. 153
Rimpilainen, M. 1381,1400
Ripa, S., R. 537
Risch, S. 1125
Risco B., S.H. 8
Rizk, G.A. 1472
Rizk, G.N. 716,717,718, 719
Rizvi, S.M.A. 528
Rizza, A. 312,1323,1858
Roach, S.H. 145
Roberts, D.W. 282
Robertson, J.S. 189
Robbins, M.L. 1603
Roberti, D. 1684,1687
Robertson, J.S. 2040
Robertson, L.N. 1578
Rocamora, J.M. 240
Rochers, B. des 265,266
Rockett, C.L. 1009
Rodd, F.H. 1256
Rodin, J.O. 698
Rodrigues, F.J. de O 1561
Rodriguez Perez, M. 1713

- Rodriguez-Rueda, D. 146
 Rojas, E.A. 839
 Rojewski, C. 783
 Rolston, M.P. 551
 Romasheva, L.F. 1968
 Romanchenko, A.A. 629
 Romero, E. 1144
 Rondelaud, D. 294
 Room, P.M. 1872
 Roquebert, M.F. 1529
 Rosay, B. 880
 Rose, M. 1154,1155, 1931
 Rosen, D. 151,152,466,637, 965,968,1382,1447, 1464, 1933
 Rosenberger, J.L. 1202
 Rosenthal, S.G. 821
 Rosenthal, S.S. 308,821
 Ross, B.M. 830
 Rotheray, G.E. 459
 Rougon, C. 785
 Rougon, D. 785
 Roush, R.T. 860
 Roux, J. 715
 Roze, L.D. 1852
 Rozek, T. 677
 Rubenacker, M.C. de 452
 Rubtsov, I.A. 408,409,769, 1434,1437
 Ruggeri, L. 979
 Ruiz, A., E.R. 1189,1705, 1943
 Russell, C.C. 66,1126,1471, 1656
 Russo, J. 1942
 Rust, R.W. 76
 Rustamova, M.R. 598
 Rutz, D.A. 1300
 Ruzicka, Z. 1498
 Ryan, C.C. 1548
 Ryan, R.B. 212,1233,1496, 1742,1743
 Rye, W.J. 1091
 Saad, A.H. 1472
 Saari, L. 700
 Sabaou, N. 661
 Sabbath, M.D. 821
 Sabrosky, C.W. 1944
 Sachdeva, N.L. 1267
 Safarov, Sh. 1352
 Saharia, D. 1064
 Saini, E. 449
 Saito, Y. 993
 Salama, H.S. 1645
 Salter, S.S. 125
 Samal, P. 1558
 Samsinakova, A. 1409
 Samson, R.A. 1696
 Samurov, M.A. 1306
 Samways, M.J. 558
 Sanchez-Boccherini, J. 30
 Sandow, J.D. 1049
 Sands, D.C. 1851
 Sands, D.P.A. 821,1872
 Sanford, J. 512
 Sanford, K.H. 1131
 Sanguino, J.R. 513,514
 Sankaran, T. 821
 Santaballa, E. 342
 Santas, L.A. 415
 Santhalakshmi, G. 1016,2017
 Santharam, G. 606
 Santis, L. de 448,1835,1930
 Santos, W.J. 1638
 Sapozhaikov, G.L. 782
 Sapundzhieva, K. 1192
 Saraswati, R. 1358,1875
 Sarmiento, M., J. 1555
 Sarup, P. 14,1020
 Sassic, N.M. 1881
 Sato, T. 658
 Satyanarayana, S.V.V. 1648
 Savage, K.E. 1810
 Sawoniewicz, J. 376
 Scarbrough, A.G. 502
 Schaber, B.D. 1570
 Schaefer, C.H. 267,1783, 1812
 Schaefer, P.W. 1453
 Schall, A.W.J. van der 1994
 Schauff, M.E. 1424,1941
 Schenk, N.C. 945
 Schicha, E. 906,1430, 1948
 Schliesske, J. 440
 Schmid, J.M. 1741
 Schmidl, L. 821
 Schmidt, G.T. 356
 Schneeberger, N.F. 674
 Schneider, R. 605,1502
 Schopf, A. 458
 Schoutties, C.L. 1342,1471, 1859
 Schreiner, I.H. 819
 Schroeder, D. 791,811, 1335
 Schroth, M.N. 1471
 Schuh, B.A. 1207
 Schultka, H. 1302
 Schultz, P.B. 875
 Schulz, U. 631
 Schumann, H. 1302
 Schuster, S. 1111
 Sciumbato, G.L. 816
 Scopes, N. 121
 Scopes, N.E.A. 1624
 Scott, D.W. 1235
 Scott, J.K. 1855
 Scott, W.P. 130
 Scriven, G.T. 701
 Sebastien, R.J. 1809
 Sechin, J. 75
 Sekeroglu, E. 852
 Semeria, Y. 373,503
 Sem'yanov, V.P. 432,476, 1966
 Sengonca, C. 1107,1404
 Seureau, C. 1752
 Sexton, S.B. 1050,1055
 Seyedoleslami, H. 157
 Shadmanova, N. 1115
 Shafee, S.A. 389,1939
 Shaheen, A.A. 719
 Shakuntala, K. 726
 Shalaby, F.F. 801,805,809, 810,837,989
 Shal'dybin, L.S. 1258
 Shang, Y.C. 139
 Shanmugasundaram, M. 1016, 2017
 Shanmugasundaram, S. 1184
 Shapiro, M. 1204,1410, 1727,1917
 Sharma, H.C. 1378
 Sharma, S.K. 563,1593
 Sharma, V.K. 14,1020
 Sharp, E.L. 1851
 Shashchaev, Yu.A. 331
 Shatla, M.N. 569
 Shaul, E.Y. 1431
 Shaumar, N.F. 1766,2022
 Shaw, M.R. 228,967, 1215
 Shcherbak, V.P. 999,1800
 Shcherban, Z.P. 999,1800
 Shehata, I.B. 1472
 Shelton, A.M. 1092
 Shepard, M. 761,1058,1066, 2011
 Shepherd, R. 237
 Sheppard, D.C. 1146
 Shewell, G.E. 918
 Shields, E.J. 990
 Shields, M.S. 2076
 Shilenko, Yu.V. 1784
 Shim, J.Y. 1553
 Shima, H. 1453
 Shinde, V.K.R. 1074
 Shinkarenko, V.A. 337
 Shireman, J.V. 1880
 Shisler, J.K. 1268
 Shmetser, N.V. 111
 Shogren, M.D. 1772
 Shortle, W.C. 1212
 Shuck, C.I. 1053
 Shuja-Uddin 400
 Shulov, A. 151,152,1382
 Shumkov, M.A. 1784
 Sichinava, Sh.G. 249
 Sickerman, S.L. 797
 Siddaramaiah, A.L. 554
 Siddikov, B.Kh. 1392
 Siddiqi, J.I. 1067
 Sidhu, A.S. 597 1634
 Siemelink, M.E. 821
 Sierpinski, Z. 703
 Sih, A. 2066
 Sikorowski, P.P. 220
 Silva, D.M. da 560
 Silva, G.M. da 1633
 Silva, S.M.T. 1638
 Silverstein, R.M. 698
 Simbolotti, P. 470
 Simchuk, P.A. 607
 Simmonds, F.J. 807
 Simon, J. 1311
 Simons, E.E. 201,679
 Simons, W.R. 1097
 Simonson, J.G. 1897
 Simpson, C.M. 158,1890
 Simser, D.H. 461
 Sinacori, A. 972,1683
 Sinadskii, Yu.V. 709
 Singh, B. 4,1495
 Singh, D.B. 618
 Singh, H.M. 528
 Singh, L.K. 1176
 Singh, M. 1176
 Singh, O.P. 90,1071
 Singh, P.J. 84
 Singh, R. 2002
 Singh, S. 4
 Singh, S.N. 1121
 Singh, S.P. 1017
 Singh, V.N. 618
 Sinha, T.B. 1486,2001, 2002
 Sirlopu R., J. 2
 Sirlopu R., J.D. 1906
 Sissom, W.D. 1309
 Sithanatham, S. 1586
 Sivan, A. 1993
 Sivapalan, P. 1183
 Sivaram, D. 654
 Sivasithamparam, K. 35
 Sivcev, I. 203
 Sjogren, R.D. 274
 Skanland, H.T. 626
 Skinner, G.J. 1716
 Skorupska, A. 161,630
 Skrebtsov, M.F. 91
 Skrebtsova, N.D. 91
 Slater, J.H. 944
 Sleeman, D.P. 281
 Slobodkin, L.B. 1990
 Slosser, J.E. 1632
 Small, R.W. 1902
 Smilanick, J.M. 1008
 Smiley, J.T. 1870
 Smilowitz, Z. 353,853
 Smirnova, I.A. 621
 Smith, A.D. 1054
 Smith, B.W. 325
 Smith, D. 1147
 Smith, G. 930
 Smith, H.R. 671
 Smith, J.W. 130,512
 Smith, J.W., Jr. 962,1579
 Smith, K.T. 1212
 Smith, M.T. 1751
 Smith, R.J. 997,1672
 Smith, R.K. 36
 Smith, S.M. 251
 Smith, T.J.R. 427
 Smits, P.H. 1601
 Sneh, B. 230,1111
 Snell, J.M. 1471
 Sohi, S.S. 1916
 Sokha, R.V. 336
 Soldan, T. 1484
 Soliman, Z.A. 1766,2022
 Solorza, J. 451
 Solovei, E.F. 105
 Somchoudhury, A.K. 1375, 1492
 Somme, L. 159
 Sood, M.L. 1259
 Soper, R.S. 540
 Soriguer, R.C. 1251
 Sorokin, A.P. 402
 Sorokin, N.S. 1093
 Soundararajan, V. 1648
 Souza, N.L. de 515
 Soylu, O.Z. 1679
 Spasova, P. 884,1088,1373
 Spaul, V.W. 1547
 Spencer, D.M. 713
 Spencer, N.R. 821,1323
 Spies, C.J., III 1229
 Spiridinov, S.E. 2032
 Sproul, A.N. 1133,1137, 1148
 Spun'gis, V.V. 590
 Spurr, H.W. 943
 Squires, J.M. 1791
 Sreedharan, K. 1733
 Srivastava, D.C. 725
 Srivastava, K.L. 566
 Srivastava, R.P. 1172,1173
 Stacey, A.L. 1582
 Stackerud, M. 951
 Standaert, J.Y. 748
 Standow, K.A. 1386
 Stanghellini, M.E. 1471
 Stanley, J.G. 1353
 Staples, R.C. 949
 Stapley, J.H. 659,1702
 Starchikov, A.V. 1784
 Starcke, H. 236
 Stary, P. 78,79,379,1005, 1484,1567
 Stavradi, H.G. 445

- Steffan, W.A. 474,938
 Stein, J.D. 1232
 Steinhauer, A.L. 214
 Stenseth, C. 576
 Stephen, F.M. 695,701
 Stephen, W.P. 349,2024
 Sterling, W. 354
 Sterling, W.L. 1642
 Stevens, K.L. 1360
 Stevens, V. 327
 Stewart, J.A. 358
 Stewart, J.P. 1811
 Stewart, R.K. 33,433,549,
 1018,1203,1724
 Stimac, J.L. 339
 Stirling, G.R. 177
 Stoaks, R.D. 474
 Stock, M.W. 1896
 Stoffolano, J.G., Jr. 1830
 Stojanovic, D. 1324,1364
 Stoltz, D.B. 463
 Stone, D.M. 1194
 Storozheva, N.A. 1423
 Storozhkov, Yu.V. 104
 Stott, B. 832
 Stowell, L.J. 1471
 Strandberg, J.O. 1606,1607
 Streibert, H.P. 1384
 Streu, H.T. 542
 Strickland, G.R. 1059
 Strickler, K. 1383
 Strong, R.D. 1367
 Stucky, J.M. 802
 Sturhan, D. 605
 Stutterheim, C.J. 289,774
 Stutterheim, I.M. 289
 Su, S.J. 1518
 Subrahmanyam, B. 1513
 Suckling, D.M. 690
 Suda, Y. 1205
 Sudars, L. 596
 Sudd, J.H. 1715
 Sudomo, M. 1283
 Sukhdev, Singh 4
 Sulgostowska, T. 484
 Sultanov, M.A. 1392
 Summers, C.G. 64,2047,2050
 Summers, T.E. 1015
 Sumner, D.R. 1471
 Sun, C.N. 747
 Sun, F. 1081
 Sundheim, L. 577
 Sunose, T. 210
 Suter, H. 65
 Sutton, D.L. 1353
 Sutton, R.M. 2039
 Sutton, W.J. 1194
 Suzuki, Y. 1006
 Svatkovskaya, T.V. 673
 Swailem, S.M. 611,678,
 710,991,992
 Swair, I.A. 660,1472
 Swamiappan, M. 132
 Swaminathan, S. 1334
 Sweeney, A.W. 1285,1413,
 1801,1802
 Sweet, R.A. 1786
 Swirski, E. 649,1168
 Switzerland, World Health
 Organisation 779
 Sychevskaya, V.I. 1270
 Syrett, P. 850,1500
 Szabo, J.B. 396
 Taborisky, V. 1615
 Tachikawa, T. 652,772,
 1448
 Tadros, W. 241,242,243,244
 Taha, K. 1472
 Takada, H. 380
 Takafuji, A. 507
 Takagi, K. 1447
 Takagi, M. 642
 Takahashi, R.M. 749
 Takahasi, F. 1503
 Takaoka, H. 759,1435
 Takara, J. 1401
 Talbot, C.W. 1268
 Tamaki, G. 1599,2067
 Tamarina, N.A. 1905
 Tanaka, M. 858
 Tandon, P.L. 1172,1173
 Tang, F. 1240
 Tang, K.F. 1181
 Tanigoshi, L.K. 1501
 Tao, C.C.C. 387
 Tapio, E. 1463
 Tarasenko, I.M. 676
 Tarasova, O.M. 1354
 Tatchell, G.M. 1516,1604
 Tauber, C.A. 454
 Tauber, M.J. 454,468,2020
 Tawfik, M.F.S. 541,592,
 593,801,805,809,810,
 837,898,987,988,989,
 991,992,2003,2004
 Taylor, J.B. 620
 Te Beest, D.O. 1471
 Tedders, W.L. 635,1388
 Temarak, S.A. 1023,1180,
 1396
 Templeton, G.E. 1346,1471
 Tenora, F. 240,1779
 Teodorescu, I. 27,195
 Teplyakova, T.V. 1089
 Terauds, A. 818
 Terry, E.R. 1070
 Tersac, J. 1395
 Teskey, H.J. 918
 Thalji, R. 567
 Theodor, O. 1455,1947
 Theroux, L.J. 1742
 Thiab, E.M. 660,1472
 Thimmaiah, G. 137
 Thippeswamy, C. 137
 Thomas, M.J. 24
 Thomas, W.P. 52
 Thomason, I.J. 93
 Thompson, C.G. 1235
 Thompson, J.N. 495
 Thontadarya, T.S. 86,565
 Thorp, J.H. 1291
 Thurling, D.J. 2028
 Thurston, H.D. 846
 Tibera, R. 1744
 Ticehurst, M. 201
 Tichy, V. 1206
 Tiffany, L.H. 1471
 Tiittanen, K. 1084,1381,
 1400
 Tilden, P.E. 698
 Ting, C.P. 1116
 Tinsley, T.W. 189,1749
 Tirado, R.B. 804
 Tiwari, L.D. 613,1073
 Todd, J.W. 1900
 Tokeshi, H. 515
 Tokuhisa, E. 1210
 Tomley, A.J. 821
 Tonks, N.V. 857
 Tonkyn, D.W. 2061
 Toohey, M.K. 1909
 Torgersen, T.R. 1233,1496
 Torre Callejas, S.L. de la
 362,363
 Torres, B., M. 1537
 Tosi, J. 287
 Tourneur, J.C. 1134
 Toyama, G.M. 1303
 Tozer, W. 265
 Tracy, R.A. 1748
 Trail, D.R.S. 496
 Tranfaglia, A. 341
 Traub, R. 236
 Treinen, R. 1311
 Tremblay, E. 174,1002
 Trenchev, G. 919,166 2
 Triggiani, O. 1725,1726
 Trjapitzin, V.A. 1937
 Trottier, R. 1131
 Trought, T.E.T. 552
 Trumble, J.T. 302,1075,
 1847
 Trutmann, P. 490
 Tryapitsyn, V.A. 386,1465,
 1932
 Tsai, S.M. 139
 Tseng, Y.H. 1433
 Tsou, Y.C. 1377
 Tsybul'ko, V.I. 370
 Tsybul'skaya, G.N. 119
 Tu, C.C. 653
 Tu, J.C. 556
 Tudor, C. 27
 Tummala, R.L. 493
 Turchetti, T. 1739
 Turnbow, R.H., Jr. 481,1731
 Turnbull, A.L. 931
 Turner, J.W. 44
 Turner, S.K. 1851
 Turnipseed, S.G. 71,77,1062
 Turpin, F.T. 1887
 Tyler, B.M.J. 15
 Tyrell, D. 534
 Tzean, S.S. 2075
 Ubaidullaev, Kh. 140
 Udalova, V.B. 1089
 Ueda, K. 1205
 Uematsu, H. 456,966
 Uili, S. 1701
 UK, Agricultural Research
 Council 956
 UK, Commonwealth Mycological
 Institute 1954
 UK, London School of Hygiene
 and Tropical Medicine 283
 Undeen, A.H. 755,757,759,
 1818
 Ung, S.H. 307,821
 Ungureanu, E. 1264
 United States Department of
 Agriculture 1045
 Upadhyay, R.K. 1219
 Urueta S., E.J. 1704
 USA, Department of Agri-
 culture, Science and Edu-
 cation Administration 1775
 USA, Insect Pathology Resource
 Center 950
 USA Society of Nematologists
 114
 USA, Southeastern Branch,
 Entomological Society of
 America 614
 USA, United States Army
 Engineer Waterways Experi-
 ment Station 822
 Usova, Z.V. 756
 USSR, Akademiya Nauk
 Kazakhskoi SSR 729
 USSR, Akademiya Nauk
 Ukrainskoi SSR, Institut
 Zoologii, Ukrainskoe
 Respublikanskoe Nauchnoe
 Obshchestvo Parazitologov
 782
 Uygun, N. 852
 Uzdinov, U.B. 1968
 Vaartaja, O. 556
 Vacante, V. 1759
 Vail, H.D. 961
 Vail, P.V. 1391,2072
 Vakili, N.G. 1471
 Vakker, V.G. 1822
 Valdebenito, R.M. 515
 Valderama T., A. 2
 Valentine, E.W. 50,51
 Van Gundy, S.D. 93
 Vargas, V., M. 408
 Varma, B.D. 1267
 Varma, G.C. 4,1078,1556,
 1901
 Vasil'chenko, O.N. 1351
 Vassiliades, G. 1841
 Vaughan, J.A. 238
 Vavra, J. 755
 Vazquez Rojas, A. 868
 Vechev, L.F. 397
 Veen, J.C. van 1747
 Veeresh, G.K. 1984
 Velasquez S., A. 1537
 Velez Angel, R. 1709
 Vellacott, H.P. 1055
 Venezuela, Facultad de
 Agronomia, Universidad
 Central de Venezuela,
 Instituto de Zoologia
 Agricola 952,953
 Vercammen-Grandjean, P.H. 407
 Vergara C., C. 1622
 Vergara, S. 1661
 Verma, G.C. 1495
 Verma, S. 564
 Vernoff, S. 682
 Vet, L.E.M. 443
 Vidal Sarmiento de Regalia,
 J.A. 448
 Viggiani, G. 118,181,341,
 343,382,383,384,399,
 1167,1369
 Vignes, W.G. des 1532
 Villacorta, A. 543,656,
 1694
 Villani, H.C. 1691
 Villemant, C. 213
 Villevieille, M. 584
 Vinson, S.B. 462,463,1483,
 1927
 Visalakshi, A. 1397
 Vives, J.M. 1245
 Vlask, J.M. 1445
 Vlaming, P. 1601
 Vlcek, V. 1409
 Vockeroth, J.R. 918
 Vodrazka, F. 1796
 Voegelé, J. 401,905,973,
 1003,1549,1566
 Voinescu, I. 517
 Vondracek, B. 269
 Vongsilabutr, P. 1028
 Vyas, K.M. 1657
 Vyas, R.S. 1657
 Waage, J.K. 1870
 Wada, T. 527
 Waddill, V.H. 555

- Wadhi, S.R. 1456
Wagner, V. 317
Wali-ur-Rehman, 723
Walker, G.P. 538,2016
Walker, H.L. 816,817, 1343,1856
Wallace, F.G. 1407
Wallace, M.M.H. 1051
Wallin, H. 1043
Wallis, G.W. 701
Wallner, W.E. 166
Walter, G. 771
Walters, S. 125
Wang, Y. 744
Wang, Y.C. 1116
Wangberg, J.K. 1854
Wangburg, J.K. 797,1327
Wapshire, A.J. 786,821
Ward, S.A. 2043
Warkentin, R.W. 1143
Washburn, J.O. 1732
Wahino, R.K. 253
Wasti, S.S. 885
Watanabe, M. 1216
Watanabe, T. 1099
Waterhouse, D.F. 39
Watson, A.K. 790,791, 821
Watson, P.L. 56,1047
Watson, T.F. 990
Watts, H.A. 1798
Watts, S. 1284,1798
Watve, C.M. 627
Weatherhead, P.J. 1018
Weaver, S.E. 314
Webb, R. 1345
Webb-Gebert, F. 767
Webber, J. 1208
Weerts, P.G.J. 821
Weghe, P. van de 113
Wegorek, W. 579
Wei, C.K. 247
Wei, L.Y. 1038
Weidhaas, D.E. 1298,1299
Weidner, H. 1771
Weires, R.W. 623,627
Weis, A.E. 495
Weiser, J. 1804,1817
Weiss, K. 747
Weiss, M. 1599
Weiss, M.A. 2067
Weiss, M.J. 1631
Weiss, P.W. 1330
Wells, H.D. 1471
Wen, H.C. 651
Wen, J. 744
Werner, P.A. 315
Weseloh, R.M. 202,668,975, 1390
Westerdahl, B.B. 253
Westoby, M. 279
West Samoa, University of the South Pacific 187
Wharton, R. 897
Wharton, R.A. 1693
Wheeler, A.G., Jr. 920,1247, 1857
Whitcomb, W.H. 499,500
White, G.G. 821
Whiteside, E.F. 108,1620
Whitesides, R.E. 1333
Whitfield, G.H. 2068
Whittaker, J.B. 1716
W.H.O. 255,256,1265,1286, 1290
Wicker, E.F. 1239,1756
Wickman, B.E. 1235
Wickremesinghe, R.S.B. 1814
Wightman, J.A. 43
Wigley, P.J. 46,149,2034, 2035
Wikteliu, S. 1043
Wilbur, W.D. 1389
Wilder, W.H. 1783,1812
Wilding, N. 1065,2038
Wilk, B.M. 1764
Wilkerson, R. 829
Wilkinson, A.T.S. 1850
Wilkinson, J.D. 356
Williams, C.F. 1516
Williams, J.R. 928
Williams, M.C. 258
Williams, M.L. 421
Williams, P. 768,1050
Williams, R.N. 1631
Williamson, G.D. 924,925, 926,1971,1972,1973
Wilson, G.G. 192,217, 1231,1718,1740
Wilson, J.A. 1548
Wilson, R.F. 1325,1326
Wilson, S.W. 1765
Wiltshire, C.W. 1658
Winder, J.A. 821
Wirth, W.W. 1427
Wittmer, W. 430,932
Wolfenbarger, D.A. 1109
Wolgammott, M. 1615
Wolgammott, M.L. 344
Wollkind, D.J. 1527
Won, P.O. 218
Wong, H.R. 1737
Wood, D.L. 698
Wood, D.M. 918
Wood, J. 536
Wood, H.A. 870,1917
Woodford, E.K. 319
Woodhead, S.H. 1342,1471, 1859
Woods, W. 1108
Woolley, J. 1155
Wouts, W.M. 1913,1950
Wragg, T.E. 270
Wraight, S.P. 746,750, 1813
Wright, A.D. 821,1874
Wright, E.J. 11
Wright, E.N. 246
Wu, F.Y. 1181
Wu, J. 1729
Wu, Y. 603
Wu, W.-S. 1094
Wu, Z.X. 361
Wurtsbaugh, W.A. 269,271
Wyeth, T.K. 553
Wyman, J.A. 1092
Wysoki, M. 184,649,650, 1168
Xerez, R. de 1633
Xie, Q.M. 1729
Xie, Y.Q. 742
Xing, G.X. 742
Xu, L.M. 666
Yabar L., E. 1583
Yadav, D.N. 1123
Yadav, S.R. 1017
Yadava, C.P. 20
Yagdyev, A. 1199,1200
Yamagishi, K. 395
Yamashita, T.T. 634,1144
Yamauchi, S. 380
Yan, F.S. 478
Yan, J.J. 139
Yan, X.C. 742
Yanez, J.L. 1252
Yang, S.L. 10
Yano, E. 1085
Yano, K. 522
Yao, Y.E. 1697
Yasterbov, I.S. 97
Yatham, N.R. 1438
Yazgan, S. 874
Yeagan, K.V. 1053,1526, 2023,2056
Yearian, W.C. 190,1582
Yendol, W.G. 1904
Yew, N.K. 188
Yie, Y.C. 1559
Ying, S.H. 1377
Yokomizo, N.K.S. 515
Yoneda, Y. 1313
Yoon, I.B. 218
York, A.C. 1887
Yoshimoto, C.M. 388
You, Q.T. 129
You, S.J. 129
Younce, L.C. 275
Young, E.C. 1700
Young, L.C. 680
Young, O.P. 1316
Young, S.Y. 190,1582
Yousef, A.A. 2029
Yousef, A.T.A. 1432
Youssef, A.T.A. 604
Yuang, S. 653
Yuen, G.Y. 1471
Yukinari, M. 1124
Yule, W.N. 433,549
Yunus, A. 307,821,923
Zack, R.S. 1307
Zaher, M.A. 2029
Zakharieva-Stoilova, B. 1845
Zaki, A. 1472
Zaikov, A.N. 378
Zapryanov, A. 340
Zareh, N. 279
Zatyamina, V.V. 471
Zayanchkauskas, P.A. 153
Zayats, Yu.V. 111
Zdinak, A. 821
Zelinskaya, L.M. 672
Zemlina, A.G. 150
Zettler, F.W. 814
Zhang, G.W. 742
Zhang, K.Y. 1641
Zhang, Q.L. 1079
Zhang, Y.Q. 1641
Zhang, Z.P. 361
Zheng, H.Q. 1729
Zheng, X.Q. 1729
Zhou, B.T. 1729
Zhou, X.D. 1697
Zhu, D.F. 742
Zhu, G.K. 1697
Zhu, Z.W. 1729
Zhumanov, B.Zh. 61,62
Zidan, Z.H. 1472
Zimmerman, G. 492
Zimmerman, H.G. 821
Zimmermann, G. 1095
Zlotin, A.Z. 1394
Zohdy, G.I. 638,1472
Zohdy, N.Z.M. 959,1110
Zolczynski, S.J. 325
Zon, A.Q. van 859,2027
Zon, J.C.J. Van 821
Zon, J.C. van 299
Zubkov, A.F. 2069



COMMONWEALTH AGRICULTURAL BUREAUX

PHOTOCOPY SERVICE

We can supply photocopies of most items abstracted in our Specialist Abstract Journals. Please note that copyright regulations do not permit us to supply photocopies of entire publications e.g. complete books.

The charge is 30p per page inclusive of delivery (by air outside the UK). Minimum charge: £3.00 per item of which a copy is supplied. Orders should be prepaid (in £ sterling) to avoid delay: frequent users of the service should enquire about our deposit account scheme.

All requests must be made in the following form:

Please supply the undersigned with a copy of the item covered by Volume No
Abstract No

I certify that I have not previously been supplied with a copy of this item and that the requested copy will be used only for research or private study.

Personal signature: Date:

Name (BLOCK LETTERS):

Address:
.....
.....

Send this form and remittance to: Commonwealth Agricultural Bureaux, Farnham House, Farnham Royal, Slough SL2 3BN, UK.

- Abacidus permundus*
preying on
 Hypera postica 57
 Sitona hispidulus 57
- Abutilon theophrasti*, susceptible to
 Fusarium lateritium 1856
- Acacia*, *Sextius virescens*, natural
 enemies, in Australia 692
- Acacia cyclops*, natural enemies, in
 Australia 794, 795, 796
- Acacia longifolia*, *Trichilogaster*
 acaciaelongifoliae, against, in
 South Africa 1318
- Acacia nilotica*
 biological control, in Australia
 787
 natural enemies, in Pakistan 821
- Acacia saligna*, natural enemies, in
 Australia 794, 795, 796
- Acanthepeira stellata*, preying on
 Heliothis virescens 1642
- Acanthocinus aedilis*, preyed on by
 woodpeckers, in Finland 700
- Acanthocyclops vernalis*, preying on
 Romanomermis culicivora 733
- Acaphylla theae*
 in India 1698
 preyed on by
 Acarus sp. 1698
 Amblyseius spp. 1698
 Tydeus sp. 1698
- Acarophenax tribolii*, parasitising
 Tribolium confusum 716
- Acaropsellina docta*
 preying on
 Dermatophagoides farinae 717
 Lasioderma serricorne 717
 Tribolium confusum 716, 717
- Acaropsellina sollers*, preying on
 Tribolium confusum 716, 718
- Acarus*, preying on tea mites 1698
- Acaudaleyrodes citri*, parasitised by
 Encarsia davidi, in Israel 383
- Acaulona brasiliana*, parasitising
 Dysdercus spp. 1633
- Accipiter gentilis*
 preying on
 Columba palumbus 1254
 Sciurus vulgaris 1254
- Acentria nivea*, attacking aquatic weeds,
 host specificity 830
- Aceratagallia obscura*, preyed on by
 Nabis spp. in USA 60
- Aceratoneuromyia indica*, parasitising
 Anastrepha spp. 1693
- Aceria acroptiloni*, attacking *Acroptilon*
 repens 790
- Aceria drabae*, attacking *Cardaria draba*
 806
- Aceria mangiferae*, preyed on by
 Amblyseius swirskii, in Egypt 1175
- Aceria sheldoni*, natural enemies, in
 Italy 176
- Acerotella*, descriptions 394
- Achaea janata*
 Bacillus thuringiensis against 566
 in India 565, 566
 parasitised by *Trichogramma* -
 toidea bactrae 565
 susceptibility to *Bacillus thuringiensis*
 613, 1073
- Achaearanea veruculata*,
 preying on *Heliothis* spp. 1643
- Acherontia styx*, parasitised by
 Trichogramma australicum, in
 India 106
- Achroia grisella*, parasitised by *Bracon*
 hebetor 1767
- Achrysocharoides atys*, courtship
 behaviour 467
- Achrysocharoides cilla*, courtship
 behaviour 467
- Achrysocharoides niveipes*,
 courtship behaviour 467
- Acigona infusella*, attacking *Eichhornia*
 crassipes 1874
- Acigona steniellus*
 biological control, in Pakistan 510
 parasitised by *Sturmioopsis inferens*,
 in India 1017
- Acinetobacter calcoaceticus*, infecting
 Oryctes rhinoceros 1184
- Acrompolynema immaculatum*,
 description 1941
- Acrompolynema sema*, parasitising
 Homalodisca insolita, description 1941
- Acrompolynema varium*, parasitising
 Oecanthus spp. 1941
- Acremonium strictum*, infecting
 Heterodera schachtii 93
- Acremonium zonatum*, infecting
 Eichhornia crassipes 827
- Acridiophaga caridei*, parasitising
 Schistocerca cancellata 1654
- Acridotheres tristis*, preying on
 Musca sorbens 1303
- Acroaspidiini*, taxonomy 386
- Acrobasis demotella*, lack of parasites,
 in USA 166
- Acrobasis juglandis*
 in USA 166
 parasitised by
 Calliephialtes grapholithae 166
 Macrocentrus instabilis 166
 Pristomerus euryptychiae 166
 Scambus hispae 166
 Trathala plesia 166
- Acrocercops orthostacta*, parasitised
 by *Paratrachogramma giraulti*,
 in India 400
- Acrolepia alliella*, parasitised by
 Diadromus subtilicornis, in Japan
 1446
- Acroptilon repens*
 in Canada 790, 1971
 in USA 790
 in USSR 790
 natural enemies 790
 natural enemies against 1971
- Acrosternum millierei*, parasitised by
 Gryon terraesanctae, in Israel 396
- Actia plipennis*, parasitising *Epichoristodes*
 acerbella 1245
- Aculops pelekassi*, natural enemies,
 in Italy 176
- Aculus schlechtendali*
 in Netherlands 1664
 in USA 627, 1138, 1140
 predators 627
 preyed on by
 Amblyseius fallacis 1138
 Typhlodromus pyri 1136,
 1664
- Acyrtosiphon kondoi*
 Aphidius spp. against 52
 controlled by *Aphidius ervi* 1049
 Ephedrus plagiator against 52
 in Australia 39, 44, 438, 1049,
 1573
 in New Zealand 52, 54, 1571
 in USA 64
 infected by
 Conidiobolus obscurus 1571, 2037
 Entomophthora spp. 54, 1573,
 2037
- Acyrtosiphon kondoi* (contd.)
 Zoophthora spp. 1571, 2037
 predators, effect of insecticides 850
 preyed on by
 Chrysoperla carnea 2050
 Coccinella repanda 1573
 Coccinella undecimpunctata
 52, 54
 Hippodamia convergens 64
 Melangyna novaezelandiae 54
 Melanostoma fasciatum 52, 54
 Micromus tasmaniae 52, 54
 Nabis maoricus 54
- Acyrtosiphon pisum*
 Aphidius spp. against 52
 Bacillus thuringiensis against 81
 controlled by *Aphidius eadyi* 538
 Ephedrus plagiator against 52
 hyperparasites 2016
 in Canada 2048, 2049, 2051,
 2052, 2053, 2054
 in Cyprus 539
 in France 2038
 in New Zealand 52, 538, 1571,
 2016
 in USA 60, 64, 635
 in USSR 81
 infected by
 Conidiobolus obscurus 1571,
 2038
 Zoophthora spp. 1571
 parasitised by
 Aphidius eadyi 78
 Aphidius ervi 539
 Aphidius smithi 1484
 Praon barbatum 539
 Trioxys complanatus 539
 predators 2053
 effect of insecticides 850
 preyed on by
 Chrysoperla carnea 2050
 Coccinella spp. 52, 635, 2048,
 2049, 2051, 2052, 2054
 Cycloneda polita 2054
 Hippodamia convergens 64
 Melanostoma fasciatum 52
 Micromus tasmaniae 52
 Nabis spp. 60
- Acyrtosiphon pisum ononis*, parasitised
 by *Aphidius* spp., in France 79
- Adalia bipunctata*
 artificial diet 360
 development, effect of temperature
 2020
 predatory behaviour 475
 preying on aphids, community
 groups 2060
 rate of increase 986
- Adalia decempunctata*, preying on
 aphids, community groups 2060
- Adelencyrtus*, parasitising *Pinnaspis*
 aspidistrae 640
- Adelges piceae*
 Hemeroobius spp. against, in
 Canada 708
 infected by *Nectria aurantiicola* 1954
- Adelina*, infecting *Heteronychus arator*
 47
- Adelina tribolii*, infecting *Tribolium* spp.
 233, 234
- Adelphocoris lineolatus*
 integrated control, in Romania 533
 natural enemies against, in Canada 1973
- Adenostoma fasciculatum*, grazed by
 goats, in USA 1313
- Adisura atkinsoni*, *Bacillus thuringiensis*
 against, in India 1597

- Admontia degeerioides*, trapping technique 358
- Adoretus hirsutus*, susceptible to *Bacillus popilliae* 26
- Adoryphorus couloni*, natural enemies, in Australia 547
- Adoxophyes orana*, *Bacillus thuringiensis* against, mode of action 155
- Adoxophyes privatana*, infected by *Paecilomyces catenobliquus*, in China 1442
- Adrisa*, attacking *Acacia cyclops* 796
- Aedes*, controlled by *Bacillus thuringiensis israelensis* 1288, 1812
- Aedes aegypti*
Bacillus sphaericus against 260
Bacillus thuringiensis israelensis against 261, 263, 1283, 1810
Bacillus spp. against 1467
 denonucleosis virus, storage 891
 in India 260
 in Indonesia 1283
 in Thailand 1467, 1805
 in USA 261, 263, 1810
 infected by
Bacillus sphaericus 869
Helicospodidium sp. 1805
Neoapectana carpocapsae 1792
Romanomermis culicivora 1791
Metarhizium isopliae against, effect of formulation 1798
 preyed on by
Pimephales promelas 728
Toxorhynchites rutilus rutilus 730, 1785
 susceptibility to
Bacillus sphaericus 751
Bacillus thuringiensis israelensis 743, 745, 1811
Bacillus thuringiensis varieties 743, 1279
- Aedes albopictus*
 controlled by *Gambusia affinis*, in India 1267
 infected by *Coelomomyces stegomyiae chapmani*, in Taiwan 257
- Aedes alcazidi*, infected by *Coelomomyces macleayae*, in Taiwan 257
- Aedes australis*, infected by *Coelomomyces opifexi*, in New Zealand 256
- Aedes cantans*, preyed on by *Paraprosalpia silvestris*, in USSR 1270
- Aedes cantator*, infected by CPV, in USA 752
- Aedes caspius*
 in USSR 729, 1799
 infected by *Coelomomyces iliensis* 1799
 predatory fish against 729
- Aedes cinereus*, *Entomophthora conglomerata* against 1795
- Aedes communis*
 in USSR 1270, 1434
 infected by
Culicimermis culicivora 1434
Reesimermis jacutensis 1434
 preyed on by *Paraprosalpia silvestris* 1270
- Aedes decticus*, infected by mermithid, in Canada 1794
- Aedes detritus*
Bacillus thuringiensis israelensis against, in UK 283
 infected by *Fusarium oxysporum*, in Italy 741
- Aedes dorsalis*
Bacillus thuringiensis israelensis against, in USA 266
Entomophthora conglomerata against 1795
- Aedes excrucians*
Entomophthora conglomerata against 1795
 in USSR 254, 1270
 infected by *Ascocystis culicis* 254
 preyed on by *Paraprosalpia silvestris* 1270
- Aedes geniculatus*, infected by *Ascocystis culicis*, in USSR 254
- Aedes hexodontus*, infected by *Gastromermis* sp., in Norway 1793
- Aedes japonicus shintienensis*, infected by *Coelomomyces macleayae*, in Taiwan 257
- Aedes malikuli*, infected by *Coelomomyces* sp., in Taiwan 257
- Aedes nigromaculis*, *Bacillus thuringiensis israelensis* against, in USA 263
- Aedes punctator*, preyed on by *Paraprosalpia silvestris*, in USSR 1270
- Aedes stimulans*
Bacillus spp. against, in USA 1813
 susceptibility to
Bacillus sphaericus 746
Bacillus thuringiensis israelensis 746
- Aedes taeniorhynchus*
Bacillus thuringiensis israelensis against 261, 263, 1808, 1810
 in USA 261, 263, 410, 1808, 1810
 infected by
Amblyospora polykarya 410
Romanomermis culicivora, effect on metabolism 1789
 susceptible to
Helicospodidium sp. 1805
Vavraia culicis 740
- Aedes triseriatus*, *Bacillus thuringiensis israelensis* against 1807
- Aedes vexans*
 in USA 258
 in USSR 249
 infected by
Amoebidium sp. 258
Arthromitus sp. 258
Smitium spp. 258
 preyed on by *Gambusia* sp. 249
- Aedes vittatus*, controlled by *Gambusia affinis*, in India 1267
- Aedia leucomelas*
 in Japan 1446
 parasitised by
Campoletis chloridae 1446
Casinarina anastomosis 1446
- Aelia*, natural enemies, in USSR 28
- Aelia rostrata*
 in Spain 30
 in Turkey 1569
 infected by *Mermis* sp. 1569
 parasitised by
Elomya lateralis 1569
Gryon monspeliensis 30
Gymnosoma spp. 1569
Telenomus heydeni 30
Trissolcus spp. 30, 1569
- Aenasius advena*
 parasitising *Ferrisia virgata* 87
 taxonomy 1936
- Aeolesthes sarta*, parasitised by *Sclerodermus turkmenicus*, in USSR 1200
- Aeolothrips intermedius*
 preying on
Diuraphis noxia 31
Schizaphis graminum 31
- Aeromonas hydrophila*, effect of tree sap 1720
- Aethalura punctulata*, parasitised by *Poecilostictus cothurnatus*, in Netherlands 1747
- Agasicles hygrophila*, controlling *Alternanthera philoxeroides*, in Australia 821, 828, 1878
- Agathis*, parasitising *Elasmopalpus lignosellus* 1579
- Agathis annulipes*, parasitising *Choristoneura conflictana* 1737
- Agathis festiva*, from Taiwan 1958
- Agathis pumila*
 against *Coleophora laricella*, in USA 1743
 rearing methods 212
- Agathis stigmatera*, parasitising *Diatraea saccharalis* 511, 512
- Agelaius phoeniceus*, preying on *Ostrinia nubilalis* 1018
- Agelenopsis naevia*
 preying on
Anopheles spp. 1786
Culex restuans 1786
- Ageniaspis bucculatricis*, parasitising *Bucculatrix thurberiella* 1644
- Ageniaspis fuscicollis praysincola*, parasitising *Prays oleae* 646
- Ageratina riparia*, natural enemies against, in Hawaii 1466
- Agistemus exsertus*
 preying on
Aonidiella aurantii 638
 cotton mites 604
Lepidosaphes beckii 638
- Agistemus fleschneri*, preying on apple mites 627
- Agonatopus*, parasitising *Dalbulus maidis* 12
- Agonopterix ulicitelata*, attacking *Ulex europaeus* 800
- Agonum dorsale*, preying on *Delia brassicae* 1610
- Agrilus bilineatus*, parasitised by *Phasgonophora sulcata*, in USA 1207
- Agrilus convolvuli*, attacking *Convolvulus arvensis* 801
- Agrobacterium radiobacter*
 against *A. tumefaciens*
 in Australia 633
 in France 715
- Agrobacterium tumefaciens*
A. radiobacter against
 in Australia 633
 in France 715
- Agromyza*, parasitised by *Bracon* sp., in India 1024
- Agromyza frontella*
 natural enemies against, in Canada 924, 926, 1971
 parasites, in USA 1048
- Agrothereutes abbreviator*, parasitising *Pristiphora* spp. 1956

- Agrothereutes adustus*, parasitising
Diprion spp. 1956
- Agrotis exclamationis*
in USSR 62, 1598
parasitised by a *Spallanzania hebes*
62
Trichogramma spp. against 1598
- Agrotis ipsilon*
parasitised by
Bonnetia comta, in USA 1022
Meteorus leviventris, oviposition
961
susceptible to
Autographa californica NPV 519
Rachiplusia ou NPV 519
- Agrotis segetum*
GV against 582
ichneumonid parasites 1957
in Sweden 582
in USSR 62, 598, 1598, 1637, 1957
infected by
CPV 582
Nosema spp. 607
parasitised by
Apanteles sp. 598
Clausicella suturata 598
Macrocentrus sp. 598
Sinophorus xanthostomus 598
Spallanzania hebes 62
Trichogramma spp. against 1598,
1637
- Agrypon flexorium*, parasitising
Loxostege sticticalis 544
- Agrypnus variabilis*, preying on *Inopus*
rubriceps 1578
- Aiolocaria*, preying on *Rhopalosiphum*
maidis 1962
- Akanthomyces*, infecting *Oiketicus*
kirbyi 1171
- Alabama argillacea*
natural enemies, in Colombia 1106
sampling technique 354
- Alamella flava*, parasitising *Nipaeococcus*
viridis, taxonomy 1936
- Albugo candida*, infecting *Cardaria*
draba 806
- Alcidion cereicola*, attacking *Eriocereus*
martinii 787
- Alcidodes affaber*, parasitised by
Goryphus sp. in India 137
- Alder**
Elasmotherus cruciatus, parasitised
by *Euclytia flava*, in USA 209
Phyllonorycter rajellus, natural enemies
in UK 206
- Aleochara*, preying on *Delia coarctata*
25
- Aleochara bilineata*
parasitising *Delia radicum*
1082
effect of insecticides 575
- Aleochara moesta*, preying on *Musca*
domestica, life history 987
- Aleurocanthus woglumi*
biological control, review 939
in USA 172, 173, 865, 1677,
1678, 1889
natural enemies, survey traps 865
parasitised by
Amitus hesperidum 172, 173,
865, 1677, 1678, 1889
Encarsia opulenta 172, 173,
865, 1677, 1678
- Aleurodiphilus americanus*, parasitising
Aleurothrix floccosus, description
1931
- Aleurolobus niloticus*, parasitised by
Encarsia davidi, in Israel 383
- Aleuropteryx juniperi*, preying on
Carulaspis spp. 1247
- Aleurothrix floccosus*
in Mexico 1931
in Spain 342
in USA 173
parasitised by
Aleurodiphilus americanus
1931
Amitus sp. 173
Encarsia sp. 173
Eretmocerus sp. 173
preyed on by *Delphastus pusillus*
173
- Alfalfa** (see Lucerne)
- Algeria**
Fusarium oxysporum albedinis,
antagonists 661
Phlebotomus spp., infected by
fungi 278
- Allantonema*, infecting *Tomicus minor*
221
- Allotropa*, against cotton pests, in
USSR 1637
- Allotropa burrelli*, against *Pseudococcus*
comstocki, in USA 1143
- Allotropa convexifrons*, controlling
Pseudococcus comstocki, in USA 1143
- Allotropa mecirra*, parasitising *Planococcus*
vovae 1449
- Alloxysta*, parasitising *Euphyllura*
phillyreae 445
- Almond**
Amyelois transitella
infected by virus, in USA 1145
Neoplectana carpocapsae against,
in USA 1144
mites, preyed on by *Typhlodromus*
occidentalis, in USA 1008
- Alophora lepidofera*, immature stages
974
- Alsophila pometaria*, parasitised by
Telenomus alsophilae, in USA 196
- Alstonia scholaris**
Parotis vertumalis, parasitised by
Pentalitomastix naclelae, in
India 1118
- Alternanthera philoxeroides*
Agasicles hygrophila against 821, 828
1878
biological control
in Australia 786, 821, 828, 1878
in Thailand 1467
Vogtia malloi against 1878
- Alternaria**
infecting *Cuscuta* spp. 1364
inhibited by *Verticillium sphaerosporum*,
in Japan 1099
- Alternaria alternata*, inhibited by
Streptomyces olivaceus, in India 37
- Alternaria brassicae*, inhibited by
Streptomyces rochei, in India 563,
1593
- Alternaria brassicicola*, inhibited by
Streptomyces rochei, in India 563,
1593
- Alternaria eichhorniae*, infecting
Eichhornia crassipes 1360
- Alternaria macrospora*, against *Anoda*
cristata 816, 817, 1343, 1471
- Altica*, preying on *Rhopalosiphum maidis*
1962
- Altica carduorum*, against *Carduus* spp.
in North America 1319
- Altica cyanea*, attacking *Ludwigia*
parviflora 323
- Altica foveicollis*, attacking *Ludwigia*
octovalvis 322
- Alysiini*, from the Nearctic, taxonomy
897
- Amara*, preying on *Blissus leucopterus*
hirtus 542
- Amaranthus caudatus*, attached by
Hypolixus nubilosus, in Egypt 805
- Amaranthus dubius*, attacked by *Hymenia*
recurvalis, in Colombia 804
- Amaranthus hybridus*, biology, in Canada
314
- Amaranthus powellii*, biology, in
Canada 314
- Amaranthus retroflexus*, biology,
in Canada 314
- Amaranthus spinosus*, biological
control, in Thailand 1467
- Amblyomma*, preyed on by *Buphagus*
africanus, in South Africa 774
- Amblyospora bracteata*, infecting
simuliids 755, 756, 1817
- Amblyospora californica*, infecting
Culex tarsalis 1803
- Amblyospora coluzzii*, infecting
Anopheles gambiae 1804
- Amblyospora kadunae*, infecting
Culex quinquefasciatus 1804
- Amblyospora nigeriana*, infecting
Culex quinquefasciatus 1804
- Amblyospora polykarya*, infecting *Aedes*
taeniorhynchus, description 410
- Amblyospora varians*, infecting
Simulium damnosum 1817
- Amblypelta cocophaga*, preyed on by
Oecophylla smaragdina, in Solomon
Islands 659
- Amblyseius**
mass rearing 1994
preying on
citrus scales 638
tea mites 1698
- Amblyseius aberrans*
preying on
orchard pests 630, 1669
vine mites
- Amblyseius addoensis*, from South
Africa, taxonomy 406
- Amblyseius aegyptiacus*, description 906
- Amblyseius bay*, description 906
- Amblyseius bibens*, effect of pesticides
859
- Amblyseius bicaudus*, preying on
Eotetranychus pruni 1671
- Amblyseius citri*, from South Africa,
taxonomy 406
- Amblyseius citrifolius*, preying on
Tetranychus pacificus, biology 2026
- Amblyseius cydnodactylon*, preying on
cotton mites 604
- Amblyseius degenerans*, predatory
behaviour 1007
- Amblyseius deleoni*
description 1430
development rate 993
effect of fungicides 858
preying on tea mites 1698
- Amblyseius dodonaeae*, description 906
- Amblyseius fallacis*
effect of
pesticides 1139, 1383, 1384, 1385
temperature on locomotion 482
preying on
Aculus schlechtendali 627, 1138
Panonychus ulmi 627, 1138, 1139
Tetranychus urticae 627, 1138,
1139, 1385, 2065

Amblyseius finlandicus

preying on

- Eotetranychus pruni* 1671
- orchard pests 161, 630, 1669

Amblyseius fletcheri, description 1430**Amblyseius gossipi**, preying on cotton mites 604**Amblyseius hibisci**, biology 1501**Amblyseius largoensis**

description 1430

preying on *Tetranychus* sp. 424**Amblyseius longispinosus**, development rate 993**Amblyseius masiaka**, in Australia 906**Amblyseius mumae**,

preying on cotton mites 604

Amblyseius nambourensis, preying on*Eriococcus ironsidei*, description 1430**Amblyseius ovalis**

preying on

Brevipalpus phoenicis 424*Tetranychus* sp. 424**Amblyseius paraki**, development rate 993**Amblyseius potentillae**

effect of pesticides 859

preying on apple mites 161

reproduction 2027

Amblyseius rhabdus, preying on tea mites 1698**Amblyseius similis**, preying on orchard pests 1669**Amblyseius solus**, description 1462**Amblyseius sturti**, description 906**Amblyseius sundi**, from Nigeria 1462**Amblyseius swirskii**

preying on

Aceria mangiferae 1175

cotton mites 604

Metatulus mangiferae 1174**Amblyseius waltersi**, description 1948**Ambrosia**

in Canada 926

in USSR 1865

Zygogramma suturalis against 1865**Ambrosia maritima**

against schistosome vectors, in

Egypt 290, 778

controlling

Bulinus guernei 1841*Lymnaea caillaudi* 778*Lymnaea natalensis* 1841**Ambrosia trifida**attacked by *Chionodes mediofuscella*

815

in USA 309, 815, 821

infected by *Puccinia xanthii**ambrosia-trifidiae* 309, 821**Amitus**, parasitising *Aleurothrix**floccosus* 173**Amitus hesperidum**parasitising *Aleurocanthus woglumi*

172, 173

effect of pesticides 1678, 1889

searching behaviour 1677

survey traps 865

Amoebidium, infecting mosquitoes 258**Amorbia**, integrated control, in USA 1169**Ampeolomyces quisqualis**, against*Sphaerotheca fuliginea*, in Norway

577

Amphipyra pyramidea

in UK 1215

parasitised by

Apanteles spp. 1215*Microplitis* sp. 1215*Rogas grandis* 1215**Amrasca biguttula biguttula**, spider

predators, in India 1112

Amsacta moorei*Bacillus thuringiensis* against 520

in India 520, 1067

infected by NPV 520

parasitised by

Apanteles obliqueae 1067*Meteorus* sp. 1067**Amyeloides transitella**

in USA 1144, 1145

infected by nonoccluded virus 1145

Neoplectana carpocapsae against,

spraying technique 1144

parasitised by *Goniozus emigratus*

2015

Anabaena, inhibiting aquatic weeds

1883

Anabaena variabilis, inhibiting *Culex**pipiens* 1289**Anacassis fuscata**, against *Baccharis**halimifolia*, in Australia 787**Anadevidia peponis**, susceptible to*Paecilomyces farinosus* 1507**Anagrus**

parasitising

Nephotettix cincticeps 1557*Nilaparvata lugens* 1027, 1028*Sogatella furcifera* 1028**Anagrus epos**, parasitising *Typhlocyba**pomaria* 157**Anagrus optabilis**

parasitising

Laodelphax striatella 524*Nilaparvata lugens* 524*Sogatella furcifera* 524**Anagrus perforator**, parasitising*Sogatodes orizicola* 23**Anagrus**, parasitising *Phenacoccus**manihoti* 87, 88**Anagrus fusciventris**, against*Pseudococcus longispinus*, in

Israel 649, 1168

Anagrus pseudococci, parasitising*Planococcus citri* 464**Anaphes flavipes** parasitising *Oulema*

spp. 1568

Anasa guttifera, parasitised by *Gryon**molinae*, in Argentina 1651**Anastatus japonicus**, parasitising*Lymantria dispar* 669**Anastrepha**

parasitised by

Aceratoneuromyia indica 1693*Biosteres* spp. 1693*Doryctobracon* spp. 1693*Ganaspis pelleranoi* 1693*Odontosema onastrephae* 1693*Opius* spp. 1693**Anastrepha obliqua**, parasites, in Costa

Rica 1693

Anastrepha serpentina, parasites, in

Costa Rica 1693

Anastrepha striata, parasites, in

Costa Rica 1693

Anastrepha suspensaparasitised by *Biosteres**longicaudatus*

effect of diflubenzuron 1374

host location 960

Anatis, preying on *Pristiphora**erichsonii* 707**Anax junius**, preying on *Solenopsis**invicta* 1308**Ancyliis discigerana**

in USA 1211

parasitised by

Apanteles polychrosidis 1211*Trichogramma minutum* 1211

preyed on by

Podisus modestus 1211*Theridion frondeum* 1211**Aneristus ceroplastae**

parasitising

Aspidiotus destructor 1172*Coccus hesperidum* 1178**Aneugmenus flavipes**, attacking*Pteridium aquilinum* 819**Angola**mosquitoes, infected by *Coelomomyces*

spp. 1277

Anicetus communis, controlling*Ceroplastes destructor*, in Australia

1151

Anisochrysa

ecology 503

parasitised by *Chrysopophthorus**hungaricus* 648**Anisochrysa flavifrons**

attraction to bait traps 1690

preying on

Cryptococcus fagisuga 208

olive pests 178, 180

Anisochrysa prasina, preying on olive

pests 178

Anisochrysa zelleri

attraction to bait traps 1690

preying on olive pests 180

Anisops sardea, preying on mosquitoes

1839

Anisopteromalus calandrae, parasitising*Callosobruchus maculatus*, searching

behaviour 1523

Anoda cristata*Alternaria macrospora* against 816,

817, 1343, 1471

in USA 816, 817, 1343, 1471, 1856

infected by *Fusarium lateritium* 1856**Anoecia**, infected by *Zoophthora aphidis*,

in France 413

Anomalococcus crematogastris,parasitised by *Syntomosphyrum**anomalococci*, in India 389**Anomis flava**, integrated control, in

China 603

Anomis sabulifera, infected by NPV,

in India 1113

Anopheles

predatory fish against, in USSR 729

preyed on by *Agelenopsis naevia*,

in USA 1786

Anopheles albimanus*Metarhizium anisopliae* against, effect of

formulation 1798

susceptibility to

Bacillus sphaericus 751*Bacillus thuringiensis israelensis*

747

Vavraia culicis 740**Anopheles annulipes***Bacillus* spp. against 1285*Culicinomyces* sp. against 1801

in Australia 732, 1801

in USA 1285

insect predators 732

Anopheles arabiensis, infected by*Coelomomyces indicus*, in Angola

1277

Anopheles argenteolobatus, infectedby *Coelomomyces africanus*, in

Angola 1277

Anopheles claviger, preyed on by*Gambusia* sp. in USSR 249

- Anopheles crucians*, parasitised by *Arrenurus pseudotenuicollis*, in USA 252
- Anopheles culicifacies*, infected by *Bacillus thuringiensis*, in India 1278
- Anopheles cydippis*, infected by *Coelomomyces africanus*, in Angola 1277
- Anopheles dirus*, susceptible to *Helicospiridium* sp. 1805
- Anopheles distinctus*, infected by *Coelomomyces africanus*, in Angola 1277
- Anopheles freeborni* in USA 253, 268, 272 infected by *Romanomermis culicivora*, effect on metabolism 1789 preyed on by *Gambusia affinis* 272 *Romanomermis culicivora*, against 253, 268
- Anopheles gambiae* in Nigeria 1804 infected by *Amblyospora coluzzii* 1804 *Nosema salivaria* 1804 *Parathelohania africanus* 1804
- Anopheles maculatus*, susceptible to *Helicospiridium* sp. 1805
- Anopheles maculipennis* in USSR 249, 254, 1799 infected by *Asocystis culicis* 254 *Coelomomyces iliensis* 1799 preyed on by *Gambusia* sp. 249
- Anopheles quadrimaculatus*, *Bacillus thuringiensis israelensis* against, in USA 263, 1810
- Anopheles squamosus*, infected by *Coelomomyces* spp., in Antola 1277
- Anopheles stephensi* *Bacillus sphaericus* against 260 controlled by *Gambusia affinis* 1267 in India 260, 1267, 1278, 1791 infected by *Bacillus sphaericus*, effect of culture substrate 869 *Bacillus thuringiensis* 1278 *Nosema algarae* 739 susceptibility to *Metarhizium anisopliae* 1791 *Bacillus thuringiensis* serotypes 1279 *Bacillus thuringiensis israelensis* 748
- Anopheles sudaicus*, *Bacillus thuringiensis israelensis* against, in Indonesia 1283
- Anopheles theileri*, infected by mermithids, in Angola 1277
- Antheraea pernyi*, parasitised by *Apanteles* sp., hyperparasites, in China 247
- Anthocoris confusus*, preying on *Phorodon humuli* 144
- Anthocoris nemoralis* controlling *Psylla pyri* 147 preying on *Phorodon humuli* 143, 144 *Psylla pyri* 628, 1141, 1665, 1666
- Anthocoris nemorum* against *Trialeurodes vaporariorum*, in Sweden 117, 1086 effect of pyrethroids 1372 preying on apple pests 159, 626 *Coccinella septempunctata* 1966 *Phorodon humuli* 144 rearing technique 1911
- Anthocoris pilosus*, preying on *Eotetranychus pruni* 1671
- Anthonomus fulvus*, parasitised by *Bracon mellitor*, in USA 1632
- Anthonomus grandis* in Colombia 1104, 1105, 1106 in USA 134, 135 infected by nematodes 134 protozoa 937 parasitised by *Catolaccus hunteri* 1105 *Heterolaccus* sp. 1105
- Anthonomus grandis grandis* in USA 1632 parasitised by *Bracon mellitor* 1632 *Catolaccus hunteri* 1632 *Eurytoma gossypii* 1632
- Anthoseius caudiglans*, preying on orchard pests 1669
- Anthoseius kazachstanicus*, preying on *Eotetranychus pruni* 1671
- Anthoseius malicophilus*, preying on *Eotetranychus pruni* 1671
- Anthrenus verbasci*, parasitised by *Laelius pedatus* 1497
- Anthrribus fasciatus*, preying on *Eulecanium tiliae* 124
- Anticarsia gemmatilis* *Euplectrus putleri* established 555 in USA 555, 1062, 1574, 1581 infected by *Nomuraea rileyi* 1581 NPV against 1581 natural enemies, in Brazil 75 parasitised by *Meteorus autographae* 1062 *Trichogramma* sp. 1574 predators, precipitin test 1058
- Antonina graminis* biological control, review 939 in South Africa 1577 parasitised by *Neodusmetia sangwani* 1577 *Stemmatosteres primus* 1577
- Anystis*, against *Halotydeus destructor*, in Australia 1051
- Anystis baccarum*, preying on orchard pests 1669
- Aonidiella aurantii* *Aphytis melinus* against 1149, 1150 biological control problem 167 review 939 in Argentina 448 in Australia 438, 1147, 1148 in China 1680 in Egypt 638 in South Africa 639 in USA 167, 1149, 1150 infected by *Fusarium coccophillum* 1680 parasitised by *Aphytis lingnanensis* 1147 *Aphytis* spp., effect of temperature 1674 *Comperiella bifasciata* 1147 effect of insecticides 639 *Debachiella citri* 448 predatory mites 638 preyed on by *Rhyzobius lophanthae* 1147
- Aonidiella citrina*, infected by *Fusarium coccophillum*, in China 1680
- Apanteles* against *Heliiothis armigera* in USSR 595 parasitised by *Eurytoma appendigaster* 247 *Gelis* sp. 247
- Apanteles* (contd.) parasitising *Agrotis segetum* 598 *Archips semistructus* 1124 *Argyresthis laevigatella* 1236 *Bucculatrix thurberella* 1644 *Cnaphalocrocis medinalis* 527 *Elasmopalpus lignosellus* 1579 *Erinnyis ello* 559 *Euproctis melania* 678 *Hymenomima extersaria* 1694 *Lymantria dispar* 203 *Malacosoma neustria* 676 *Mythimna separata* 528 *Ocnogyna loewii* 611, 1575 *Oiketicus kirbyi* 1171 *Oxydia trychiata* 1710 *Phereoca allutella* 235 *Phylactophaga froggatti* 1217 *Phyllonorycter* sp. 1423 *Plutella xylostella* 1076 *Scrobipalpula absoluta* 1618 *Sylepta derogata* 597 taxonomy 895, 1992
- Apanteles acasta*, parasitising *Amphipyra pyramidea* 1215
- Apanteles angaleti*, parasitising *Pectinophora gossypiella* 127
- Apanteles aristoteliae* parasitising *Argyrotaenia citrana* 1102 *Aristotelia argentifera* 1102
- Apanteles ater*, taxonomy 896
- Apanteles cerialis* parasitising *Boarmia selenaria* 184, 650 biology 650
- Apanteles diatraeae* against *Bissetia steniella* 4 *Chilo infuscatellus* 4 in India 4
- Apanteles emarginatus*, parasitising *Plutella xylostella* 1076
- Apanteles flavipes* against *Diatraea flavipennella*, in Brazil 6, 7 *Diatraea saccharalis* in Barbados 1 in Brazil 6, 7, 1533 *Diatraea* spp., in Trinidad 1532 biology 1536 parasitising *Diatraea saccharalis* 511, 1014, 1536
- Apanteles fulvipes*, parasitising *Amphipyra pyramidea* 1215
- Apanteles fumiferanae*, parasitising *Choristoneura* spp. 1230, 1232
- Apanteles galleriae*, parasitising *Galleria mellonella* 1260
- Apanteles glomeratus* parasitising *Artogeia rapae* 95 interaction with GV 1603 *Artogeia rapae crucivora*, hibernation 958 *Pieris brassicae* 95, 97, 1482, 1521 susceptibility to *Bacillus thuringiensis kurstaki* 1522
- Apanteles hemitheae*, parasitising *Trichoplusia ni* 1958
- Apanteles hyposidrae*, parasitising *Homona coffearia* 1958
- Apanteles juniperatae*, parasitising *Malacosoma neustria* 153
- Apanteles kazak*, parasitising *Heliiothis armigera* 598
- Apanteles lineipes*, taxonomy 896

- Apanteles liparidis*, parasitised by
Spaniopus japonicus 390
- Apanteles marginiventris*
 effect of diflubenzuron 136
 parasitising
Heliothis zea 1062
Plathypena scabra 1062
Pseudoplusia includens 1062
Spodoptera frugiperda 518
- Apanteles medicaginis*, parasitising
Mythimna unipuncta, interaction with
Neoaplectana carpocapsae 2073
- Apanteles melanoscelus*
 parasitising *Lymantria dispar*
 effect of diflubenzuron 1203
 hyperparasites 1724
- Apanteles obliqueae*
 parasitising
Amsacta moorei 1067
Crocidolomia binotalis 90
- Apanteles obscurus*, taxonomy 896
- Apanteles ornigis*
 parasitising *Phyllonorycter blancardella*
 623
 effect of insecticides 1890
- Apanteles petrovae*, parasitising
Petrova albicapitana 1748
- Apanteles plutellae*, parasitising
Plutella xylostella, hyperparasites
 99
- Apanteles polychrosidis*, parasitising
Ancylic discigerana 1211
- Apanteles rubecula*
 parasitising
Artogeia rapae 95
Pieris brassicae 95
- Apanteles ruficrus*
 against *Mythimna separata*, in
 Australia 1025
 parasitising *Prospalta capensis* 1595
- Apanteles sesamiae*
 against
Bissetia steniella 4
Chilo infuscatellus 4
 in India 4
- Apanteles subandinus*, parasitising
Phthorimaea operculella 107, 108,
 1620, 2000
- Apanteles tachardiae*, against *Holcocera*
pulvrea, in India 1782
- Apanteles telengae*, parasitising
Heliothis virescens 61
- Apanteles vanessae*, parasitising
Heliothis virescens 61
- Apanteles xanthostigmus*, parasitising
Prays oleae 646
- Apanteles monachus*
 in Cuba 1713
 parasitised by
Glyptocolastes sp. 1713
Scleroderma sp. 1713
- Apanteles*, preying on *Pristiphora*
erichsonii 707
- Apechthis resinator*, parasitising
Tortrix viridana 709
- Apechthis rufatus*, parasitising *Tortrix*
viridana 709
- Aphaereta*, parasitising *Oxydia trychiata*
 1710
- Aphaereta pallipes*, parasitising *Delia*
antiqua, interaction model 2068
- Aphanimeris tshumacovae*, infecting
Citellophilus tesquorum, description
 1437
- Aphanistes kayi*
 description 375
 parasitising
Ctenopseustis obliquana 375
Pseudocoremia suavis 375
- Aphanitylenchus*, infecting fleas,
 descriptions 769
- Aphanius dispar*, preying on mosquitoes
 248
- Aphanizomenon*, inhibiting aquatic
 weeds 1883
- Aphelenchoides fragariae*, interaction with
 nematophagous fungi 1468
- Aphelenchus avenae*
 attacking
Fusarium solani 66, 1126
Rhizoctonia solani 66, 1126, 1127
 safety to crops 1471
- Aphelinidae*, from Korea 446
- Aphelinus*
 against cotton pests, in USSR 1637
 parasitising
Aphis gossypii 561
Macrosiphum rosae
 1757
Pinnaspis aspidistrae 640
Sitobion rosaeformis 1757
- Aphelinus abdominalis*
 parasitising
 fruit aphids 1103
Metopolophium dirhodum 1042
- Aphelinus asychis*
 parasitising
Schizaphis graminum 1042
Therioaphis trifolii 539
- Aphelinus chaonia*, parasitising fruit
 aphids 1103
- Aphelinus mali*
 against
 citrus pests, in USSR 1974
Myzus persicae, in Canada 1611
 controlling *Eriosoma lanigerum*, in
 Australia 1133
 parasitising
Aphis gossypii 561
Eriosoma lanigerum, effect of
 insecticides 1662
- Aphelinus prociphili*, parasitising
Prociphilus fraxinifolii, description
 385
- Aphelinus thomsoni*, parasitising
Drepanosiphum platanoidis,
 functional response 2043
- Aphelinus toxopteraphidis*
 hyperparasites 31
 parasitising
Diuraphis noxia 31
Schizaphis graminum 31
- Aphidencyrus*, parasitising psyllids,
 taxonomy 1961
- Aphidencyrus aphidivorus*
 parasitising
Aphelinus abdominalis 1042
Aphelinus toxopteraphidis 31
Aphis gossypii 561
Aphis pomi, taxonomy 1936
- Aphidiidae*
 from Cuba 379
 from Poland 381
 host specificity 1005
- Aphidius*
 parasitising
 aphids 1975
 cereal aphids, effect of
 insecticides 33
 cotton pests 1106
- Aphidius absinthii*, parasitising aphids
 927
- Aphidius colemani*
 parasitising
Aphis nerii 1959
Myzus persicae 1959
Rhopalosiphum maidis 1959
Toxoptera aurantii 1959
- Aphidius eadyi*
 controlling *Acyrtosiphon pisum*,
 in New Zealand 538
 parasitised by *Dendrocerus carpenteri*
 2016
 parasitising *Acyrtosiphon pisum*
 78, 79
- Aphidius ervi*
 against
Acyrtosiphon spp. in New Zealand
 52
Metopolophium dirhodum 1041
Sitobion avenae 1041
 controlling *Acyrtosiphon kondoi*,
 in Australia 1049
 in Chile 1041
 parasitising
Acyrtosiphon pisum 539
Acyrtosiphon pisum ononis 79
- Aphidius frumentarius*
 parasitising
 cereal aphids 1567
Metopolophium dirhodum 1928
Sitobion avenae 1928
 taxonomic characters 1928
- Aphidius gifuensis*, parasitising *Myzus*
persicae 1116
- Aphidius matricariae*
 effect of pesticides 856
 parasitising
Myzus persicae 1959
Rhopalosiphum maidis 1959
 review of use 934
- Aphidius nigripes*, parasitising
Macrosiphum euphorbiae, biology 963
- Aphidius rhopalosiphii*
 against
Metopolophium dirhodum 1041
Sitobion avenae 1041
 in Chile 1041
 parasitising *Sitobion avenae*, effect
 of colour form 531
 synonymy 1567
- Aphidius ribis*, parasitising fruit aphids 1103
- Aphidius rosae*
 parasitising
Macrosiphum rosae 1757
Sitobion rosaeformis 1757
- Aphidius similis*, parasitising aphids 927
- Aphidius smithi*, parasitising *Acyrtosiphon*
pisum, effect on reproductive organs
 1484
- Aphidius uzbekistanicus*
 against
Metopolophium dirhodum 1041
Sitobion avenae 1041
 in Chile 1041
 parasitising
Rhopalosiphum maidis 927
Sitobion avenae 32
- Aphidoletes aphidimyza*
 against
 aphids, in USSR 104, 709, 1965
Myzus persicae, in Canada 1611
 biology 1134
 effect of pesticides 1381
 in integrated control review 1463
 oviposition 981
 preying on
Aphis pomi 1134
Cryptomyzus ribis 590

Aphidoletes aphidimyza (contd.)

- Diuraphis noxia* 31
Myzus cerasi 590
Phorodon humuli 590
Schizaphis graminum 31
 rearing technique 1400
Aphidoletes urticae, preying on aphids 1965
Aphis, coccinellid predators, in Nepal 1456
Aphis barberae, attacking *Cirsium arvense* 303
Aphis citricola
 parasitised by *Lysiphlebus fabarum*, in Italy 174
 predators, in USA 1140
Aphis craccivora
 in India 83, 1064, 1486, 1596, 1962, 2001, 2002
 in Italy 1002
 in Nepal 1456
 in USA 635
 parasitised by
 Lysiphlebus fabarum 1002
 Trioxys indicus 1596
 host selection 2002
 sex ratio 1486
 superparasitism 2001
 preyed on by
 Coccinella repanda 1064
 Coccinella septempunctata 635
 Harmonia dimidiata 1064, 1456
 Lemnia bipagiata 1064
 Menochilus sexmaculatus 1064
 Motacilla spp. 83
 Spiloscara bissellata 1064, 1962
Aphis fabae
 fungi against, in UK 1065
 infected by
 Entomophthora fresenii, in Switzerland 65
 Erynia nourvi, in Sweden 413
 parasitised by *Lysiphlebus fabarum*, in Italy 1002
Aphis glycines, preyed on by *Ischiodon scutellaris*, in Philippines 984
Aphis gossypii
 Aphidoletes aphidimyza against 104
 Coccinella septempunctata against 603
 in China 603
 in Egypt 600, 1052
 in India 561, 1758
 in Peru 1959
 in UK 956
 in USSR 102, 103, 104
 Metasyrphus corollae against 102
 parasitised by
 Aphelinus mali 561
 Aphidencyrus aphidivorus 561
 Coccophagus sp. 561
 Lysiphlebus testaceipes 1959
 Trioxys indicus, host selection 2002
 predators, seasonal abundance 600
 preyed on by *Cryptolaemus montrouzieri* 1758
 Propylea quattuordecim punctata against 103
 Verticillium lecanii against 956
Aphis kurosawai, preyed on by *Chrysolina vishnu*, in India 1962
Aphis nerii, parasitised by *Aphidius colemani*, in Peru 1959
Aphis pomi
 parasitised by *Aphithrombium mali*, in USA 407

- predators, effect of food sprays 158
 preyed on by *Aphidoletes aphidimyza*, in Canada 1134
Aphis umbrellae, infected by *Erynia nouryi*, in Israel 413
Apithrombium mali, parasitising *Aphis pomi*, description 407
Aphodius ambiguus, infected by *Cordyceps aphodii*, in Australia 49
Aphodius chausibensis, from dung, description 1429
Aphodius rakovici, from dung, description 1429
Aphodius reticulatus, from dung, description 1429
Aphodius tasmaniae
 in Australia 49, 548
 infected by
 Cordyceps aphodii 49
 milky disease 548
Aphycus, parasitising *Chloropulvinaria polygonata* 1172
Aphycus apicalis, parasitising *Phenacoccus aceris* 1449
Aphytis
 from Japan 1447
 parasitising
 Quadraspidiotus perniciosus 1135
 Unaspis citri 1152
Aphytis chilensis, parasitising *Aspidiotus nerii* 645
Aphytis cochereauvi, parasitising *Lepidosaphes beckii* 1675
Aphytis coheni, parasitising *Aspidiotus nerii*, host discrimination 2042
Aphytis diaspidis, parasitising *Hemiberlesia lataniae* 1502
Aphytis lepidosaphes
 against *Lepidosaphes beckii*, in Spain 171
 parasitising *Lepidosaphes beckii* 1675
 effect of pesticides 1472
Aphytis lingnanensis
 against *Unaspis yanonensis*, in Japan 1153
 parasitising
 Aspidiotus nerii, host discrimination 2042
 Aonidiella aurantii 1147
 effect of temperature 1674
Aphytis melinus
 against *Aonidiella aurantii*, in USA 1149, 1150
 parasitising
 Aspidiotus nerii 645
 host discrimination 2042
 Aonidiella aurantii, effect of temperature 1674
Apion
 attacking *Rumex* spp. 1862
 parasitised by *Triaspis* spp. in Romania 59
Apion antiquum, against *Emex* spp., in Australia 1330, 1331
Apion fuscirostre, against *Cytisus scoparius*, in USA 305
Apion scutellare, attacking *Ulex europaeus* 800
Apion ulicis, against *Ulex europaeus*, in New Zealand 800
Apis mellifera
 Galleria mellonella, susceptible to spiroplasmas 724
Aplocheilus latipes, against mosquitoes, in USSR 729

- Aplocheilus lineatus*, preying on *Culex* spp., efficiency 727
Aplomya caesar, parasitising *Ostrinia nubilalis* 516
Apocrypta bakeri, parasitising *Ceratosolen marchali*, oviposition behaviour 472
Apodemus sylvaticus
 blood parasites, in UK 245
 infected by
 helminths, in Norway 1779
 Sarcocystis sebeki 242
Apogonia cupreoviridis, susceptible to *Bacillus popilliae* 26
Aporia crataegi, parasitised by *Apanteles glomeratus*, in USSR 95
Applēs
 Aculus schlechtendali, preyed on by *Amblyseius fallacis*, in USA 1138
 Adoxophyes orana, *Bacillus thuringiensis* against, mode of action 155
 Aphis pomi
 parasitised by *Aphithrombium mali*, in USA 407
 preyed on by *Aphidoletes aphidimyza*, in Canada 1134
 arthropod fauna, in Norway 626
 Conopia myopaeformis, parasitised by *Leskia aurea*, in USSR 156
 Cydia inopinata, parasitised by *Trichogramma sibiricum*, in USSR 402
 Cydia pomonella
 control methods, in Bulgaria 1660
 GV against, in Canada 1131
 infected by
 GV, in USSR 150
 Nosema carpocapsae, in New Zealand 149
 natural enemies, in Poland 1130
 preyed on by *Parus* spp., in UK 1658
 Trichogramma embryophagum against, in France 148
 Dichomeris ligulella, parasites in USA 679
 Epiphyas postvittana
 in Australia 154, 622
 parasitised by
 Goniozus jacintae 622
 Trichogramma funiculatum 154
 Eriosoma lanigerum
 biological control, in Australia 1133
 parasitised by *Aphelinus mali*, in Peru 1662
 Euproctis chrysorrhoea, *Bacillus thuringiensis* against, in Poland 1132
 Hoplocampa testudinea, fungi against, in Poland 624, 625
 integrated pest control
 in Netherlands 1664
 in New Zealand 941
 in USA 163, 1888
 Lepidosaphes ulmi, preyed on by *Hemisarcophaga malus* 1668
 Lymantria dispar, *Bacillus thuringiensis* against, in Poland 1132
 Malacosoma neustria, natural enemies, in USSR 153
 mites
 fauna, in USA 627
 management, review 1136
 preyed on by phytoseiids, in Poland 161
 Ooperophtera brumata, *Bacillus thuringiensis* against, in Poland 1132
 Orygia antiqua, *Bacillus thuringiensis* against, in Poland 1132

Apples (contd.)

- Pandemis heperana*
control methods, in Bulgaria 1660
infected by NPV, in France 1661
- Panonychus ulmi*
compatibility of predators 160
preyed on by *Amblyseius fallacis*,
in USA 1138, 1139
- Phyllonorycter* spp., parasites, in
USA 623
- predacious insects
effect of food sprays, in Canada 158
in Norway 159
- predacious mites, collection
technique 1895
- predator-prey trends, in USA 1140
- Pseudococcus comstocki*, biological
control, in USA 1143
- Rhagoletis pomonella*, parasites, in
USA 1663
- Siphoninus phillyreae*, parasitised
by *Encarsia* spp., in Italy 384
- Spodoptera littoralis*, preyed on
by spiders, in Israel 151, 152
- Tetranychus urticae*
integrated control, in Australia 1137
preyed on by *Amblyseius*
fallacis, in USA 1138, 1139
- Typhlocyba pomaria*, parasitised by
Anagrus epos, in USA 157
- Apus affinis subfurcatus*, preying on
pest insects 1519
- Araneus marmoreus*, preying on
Coccinella septempunctata 1966
- Araneus sinhadagensis*, preying on
Chilo partellus 14
- Araneus theisi*, preying on *Heliothis*
spp., 1643
- Archaearana veruculata*, preying on
cotton pests 602
- Archana geminipuncta*, parasitised
by *Lydella thompsoni*, in France
1552
- Archips*, parasitised by *Ischnus*
inquisitorius, in USSR 1956
- Archips ingentanus*, infected by
Paecilomyces catenianellatus,
in China 1442
- Archips rosanus*
controlled by *Bacillus thuringiensis*,
in Italy 1158
parasitised by *Oedemopsis scabricula*,
in Canada 915
- Archips semistructus*
in Japan 1124
parasitised by
Apanteles sp. 1124
Brachymeria spp. 1124
Macrocentrus linearis 1124
Trichogramma sp. 1124
- Archytas incertus*, parasitising
Spodoptera frugiperda 518
- Archytas marmoratus*, parasitising
Spodoptera frugiperda 1554, 1555
- Argas persicus*, infected by *Bacillus*
thuringiensis, in USSR 1968
- Argentina**
Anasa guttifera, parasitised by
Gryon molinae 1651
Aonidiella aurantii, parasitised by
Debachella citri 448
Carduus spp., *Rhinocyllus conicus*
against 1846
Corecoris lativentris, parasitised by
Gryon gallardoii 1651
- Metopolophium dirhodum*,
parasitised by *Aphelinus abdominalis*
1042
- Morrenia odorata*, infected by
potyvirus 814
- Papilio thoas thoantiades*,
parasitised by *Lespesia protoginoi*
1157
- Pistia stratiotes*, attacked by
weevils 1877
- Rachiplusia nu*, infected by fungi
1967
- Rhyacionia buoliana*, *Parasierola*
nigrifemur against 452
- Schizaphis graminum*, parasitised
by *Aphelinus asychis* 1042
- Sesbania punicea*, natural enemies
1318
- Triatoma infestans*, natural enemies
1835
- Unaspis citri*, parasitised by *Aphytis*
sp. 1152
- Argyresthia laevigatella*
in Finland 1236
parasitised by
Apanteles sp. 1236
Euderus albitarsis 1236
Herpestomus wesmaeli 1236
Mesopolobus sp. 1236
Pteromalus sp. 1236
Tetrastichus sp. 1236
- Argyrotaenia citrana*
in USA 1102
parasitised by
Apanteles aristotelia 1102
Exochus nigripalpis subobscurus
1102
- Arilus cristatus*, preying on *Rhinocyllus*
conicus 1321
- Aristichthys nobilis*
against zooplankton, in Israel 835
attacking blue-green algae 1354
hybridised with *Ctenopharyngodon*
idella 821, 833, 1353
- Aristotelia*, against *Baccharis halimifolia*,
in Australia 787
- Aristotelia argentifera*
parasitised by
Apanteles aristoteliae 1102
Exochus nigripalpis subobscurus
1102
- Aristotelia morphochroma*, attacking
Hypericum perforatum 1862
- Arma custos*, preying on *Coccinella*
sempunctata 1966
- Armigeres subalbatus*, infected by
Coelomomyces stegomyiae chapmani,
in Taiwan 257
- Armillaria mellea*
inhibited by
Bacillus sp., in USA 1241
Trichoderma sp., effect of
fungicides 1389
- Arrenurus pseudotenuicollis*,
parasitising *Anopheles crucians* 252
- Artemisia absinthium*, attacked by
Euzophora cinerosella 1335
- Arthrobacter*
inhibiting
Fusarium oxysporum dianthi
230
Gibberella fujikuroi subglutinans
706
- Arthrobotrys irregularis*
against *Meloidogyne* spp. 489
culture 488
preying on nematodes 1842
- Arthrobotrys oligospora*
against *Meloidogyne incognita*,
in USSR 1089
preying on nematodes 1842
trap formation rhythm 1509
- Arthromitus*, infecting mosquitoes 258
- Artichoke**
Myzus persicae, preyed on by
Hemerobius pacificus, in USA 570
Phytomyza syngenesiae, parasitised by
Chrysocharis ainsliei, in USA 94
Platyptilia carduidactyla, preyed on
by *Hemerobius pacificus*, in USA
570
- Artificial diet**
Adalia bipunctata 360
Arzama densa 826
Chrysopa lanata lanata 450
Chrysopa spp. 1403
Chrysoperla carnea 360, 1403
Coccinella punctata 478
Coccinella septempunctata 360
Coccinella transversoguttata 360
Geocoris punctipes 1910
Heterorhabditis heliothidis 1913
Heterorhabditis spp. 1405
Hippodamia convergens 1402
Hippodamia tredecimpunctata 360
Lymantria dispar NPV 1410
Neoplectana carpocapsae 364
Neoplectana spp. 1405
Pimpla turionellae 874
Propylea quatuordecimpunctata,
360
Semiadalia undecimnotata 1403
Trichogramma dendrolimi 216, 361
- Artogeia rapae**
Bacillus thuringiensis against 96,
1605, 1608
in Australia 1983
in Canada 926, 1603
in China 1079, 1080, 1081
in USA 1605, 1068
in USA 1605, 1608
in USSR 95, 96
infected by
GV 1079, 1080, 1081, 1603,
1604
non-occluded virus 1081
Apanteles glomeratus 95, 1603
Apanteles rubecula 95
Exorista larvarum 95
Hyposoter ebeninus 95
Phryxe vulgaris 95
Pteromalus puparum 95
Trichogramma evanescens 95
susceptibility to *Pieris brassicae* GV
1516
virus bioassay 870
- Artogeia rapae crucivora*, parasitised by
Apanteles glomeratus, in Japan 958
- Arzama densa*
attacking *Eichhornia crassipes*
biology 1359
rearing 826
- Asaphes vulgaris*, parasitising *Aphelinus*
toxopteraphidis 31
- Aschersonia**
against
Dialeurodes citri, in USSR 1974
Trialeurodes vaporariorum, in
USSR 105, 709
nutrient medium 884
Aschersonia aleyrodis
against *Trialeurodes vaporariorum*, in
Bulgaria 1088
infecting
Dialeurodes citro 173
Bemisia giffardi 1680

- Aschersonia placenta*, against *Trialeurodes vaporariorum*, in Bulgaria 1088
- Aschersonia tamurai*, against *Trialeurodes vaporariorum* in Bulgaria 1088
- Ascochyta caulina*, infecting *Chenopodium album* 792
- Ascochyta pteridium*, infecting *Pteridium aquilinum* 1345
- Ascocystis culicis*, infecting mosquitoes 254
- Ascogaster quadridentata*, parasitising *Cydia pomonella* 1130, 1482
- Ash**
- Leperisus* spp., parasites, in USA 682
- Prociophilus fraxinifolii*, parasitised by *Aphelinus prociphili*, in USA 385
- Asilidae**, from Israel 1455
- Aslauga purpurascens*, revision of complex 374
- Aspen**
- Malacosoma disstria*, NPV against, in Canada 685
- Aspergillus*, infecting *Malacosoma neustria* 153
- Aspergillus candidus*, inhibited by *Trichoderma viride* 618
- Aspergillus flavus* against *Hoplocampa testudinea*, in Poland 624, 625
- controlling *Phytophthora nicotianae* parasitica 1657
- infecting *Orthaga euadrusalis* 1173
- Aspergillus luchuensis*, inhibited by *Trichoderma viride* 618
- Aspergillus niger* controlling *Phytophthora nicotianae* parasitica 1657
- inhibited by *Trichoderma viride* 618
- Aspidiella hartii*, parasites, in India 141
- Aspidiotiphagus citrinus*, parasitising *Lepidosaphes beekii*, effect of pesticides 1472
- Aspidiotus destructor* coccinellids against, in New Hebrides 1187
- in India 1172
- parasitised by *Aneristus ceroplastae* 1172
- Chartocerus* sp. 1172
- Chrysotomomyia* sp. 1172
- Comperiella bifasciata* 1172
- Thomsonisca pakistanensis* 1172
- Aspidiotus nerii* in Greece 645
- infected by *Nectria flammea* 1954
- integrated control, in Italy 1167
- parasitised by *Aphytis chilensis* 645
- Aphytis melinus* 645
- Aphytis* spp., host discrimination 2042
- Encarsia citrina* 645
- Aspidolpha*, preying on *Lipaphis erysimi* 1596
- Aspidomorpha transparipennis*, attacking *Convolvulus arvensis* 803
- Astegopteryx nipae*, preyed on by *Ischiodon scutellaris*, in Philippines 984
- Athene cunicularia*, preying on rodents 1253
- Athene cunicularia nanodes*, preying on insects 1970
- Athene noctua*, diet 1253
- Athetis pectinicornis* attacking *Eichhornia crassipes* 320
- Pistia stratiotes* 320
- Athrycia cinerea*, trapping technique 358
- Atractotomus mali*, preying on apple pests 159, 626
- Atta*, controlled by *Canavalia ensiformis*, in Colombia 200
- Atta cephalotes*, infected by *Cordyceps unilateralis*, in Brazil 610
- Attagenus scalaris*, attacking *Convolvulus arvensis* 801
- Aulacaspis tegalensis*, *Pharoscyrnus horni* against, in Mauritius 1544
- Aulacidea acropiltonica* attacking *Acroptilon repens* 790
- Australia**
- Acacia nilotica*, biological control, in Queensland 787, 821
- Acacia* spp., natural enemies, in Western Australia 794, 795, 796
- Acyrtosiphon kondoi* controlled by *Aphidius ervi*, in Western Australia 1049
- natural enemies in New South Wales 438
- in Queensland 1573
- Adoryphorus couloni*, natural enemies, in Tasmania 547
- Agrobacterium tumefaciens*, *A. radiobacter* against, in South Australia 633
- Alternanthera philoxeroides*, biological control 786, 821, 828, 1878
- Aonidiella aurantii* integrated control, in Western Australia 1148
- natural enemies in New South Wales 438
- in Queensland 1147
- Aphidius tasmaniae* infected by *Cordyceps aphodii*, in South Australia 49
- milky disease 548
- aquatic weeds, attacked by *Neoceratodus forsteri*, in Queensland 834
- Baccharis halimifolia*, biological control, in Queensland 787
- biological control, annual report, in South Australia 954
- Brevipalpus lewisi*, preyed on by *Typhlodromus reticulatus*, in Victoria 123
- Ceroplastes destructor*, controlled by *Anicetus communis*, in New South Wales 1151
- Chondrilla juncea* biological control 786, 821, 1860
- Puccinia chondrillina* against 1860, 1861, 1862
- Chrysopidae**, revision 372
- cotton pests, spider predators, in Queensland 602
- Dodonaea* spp., goats against 798
- Echium plantagineum* biological control 821, 1855
- Longitarsus* spp. against 1862
- ecology of pests 1983
- Eichhornia crassipes*, biological control 821, 825, 1361, 1874
- Emex australis*, *Lixus cribricollis* against, in Western Australia 1332
- Emex* spp.
- Apion antiquum* against 1330, 1331
- biological control 821
- Lixus cribricollis* against 1862
- Epiphyas postvittana* parasitised by *Goniozus jacintae*, in Victoria 622
- Trichogramma funiculatum*, in Victoria 154
- Eriocereus martinii*, biological control, in Queensland 787, 821
- Eriococcus ironsidei* preyed on by *Amblyseius nambourensis*, in Queensland 1430
- Phytoseius hawaiiensis*, in Queensland 906
- Eriophyes vitis*, preyed on by *Typhlodromus reticulatus*, in Victoria 123
- Eriosoma lanigerum*, biological control, in Western Australia 1133
- Graphognathus leucoloma*, infected by *Heterorhabditis* sp., in Victoria 1050
- grasshoppers, parasitised by *Trichopsidea oestracea* 2018
- Haematobia irritans*, dung beetles against, in Western Australia 1314
- Halotydeus destructor*, *Anystis* sp. against, in Western Australia 1051
- Heliothis armigera*, integrated control, in Western Australia 1108
- Heliothis punctigera* NPV disseminated by predators, in South Australia 1120
- Trichogramma ivelae* against, in Victoria 1091
- Heliothis* spp., spider predators, in Queensland 1643
- Heliotropium europaeum* biological control 821
- Longitarsus albineus* against 1862
- Hypericum perforatum* biological control 786, 821
- Chrysolina* spp. against 1862
- Lantana camara*, biological control, in Queensland 787
- locusts, parasitised by *Blaesoxipha* spp. 68
- Marrubium vulgare*, natural enemies 1862
- mosquitoes *Culiciniomyces* sp. against, in New South Wales 1801
- Gambusia affinis* against, in Western Australia 1263
- insect predators, in Victoria 732
- Musca vetustissima*, dung beetles against, in Western Australia 1314
- Mythimna separata*, *Apanteles ruficrus* against, in Western Australia 1025
- Myzus persicae*, preyed on by *Scymnodes lividigaster* 479
- natural enemy introductions, in Western Australia 1458
- Nezara viridula*, *Trichopoda pillipes* against 1399
- Nysius* spp., parasitised by *Alophora lepidofera* 974
- Opuntia aurantiaca*, *Dactylopius austrinus* against 821
- Opuntia inermis*, biological control 786

Australia (contd.)

- Oryctolagus cuniculus*, parasitised by *Spilopsylla cuniculi* 237
- Otiorynchus sulcatus*, *Heterorhabditis heliothidis* against, in Tasmania 1098
- Parthenium hysterophorus*, biological control, in Queensland 787, 821
- pasture pests, conference 38, 39, 42, 44, 45
- pest control projects, cost benefit analysis 427
- Phalaenoides glycinae*, natural enemies, in South Australia 589
- Phaulacridium* spp., *Nosema locustae* against, in Western Australia 1057
- Phthorimaea operculella*, parasites, in Queensland 107
- Phylacteophaga froggatti*, parasites, in Western Australia 1217
- Puccinia melanocephala*, inhibited by *Cladosporium uredinicola*, in Queensland 1548
- Quadraspidiotus perniciosus*, *Encarsia perniciosi* against, in New South Wales 438
- Rubus fruticosus*, biological control, in Victoria 821
- natural enemies 304
- Salvinia molesta*, biological control 1361
- controlled by *Cyrtobagous singularis*, in Queensland 1872
- Scirpophaga innotata*, parasitised by *Telenomus rowani*, in Western Australia 1033
- Senecio jacobaeae*, *Longitarsus jacobaeae* against 818, 821, 1862
- Tyria jacobaeae* against, in Victoria 821
- Sextius virescens*, natural enemies, in Victoria 692
- Sirex noctilio*, integrated control 1754
- Sminthurus viridis*, controlled by *Neomolpus capillatus*, in Western Australia 1051
- soyabean pests, integrated control, in Western Australia 1059
- Strathmorrhopa aphotista*, infected by *Beauveria bassiana*, in Tasmania 689
- sunflower pests, natural enemies, in Queensland 568
- Synanthedon tipuliformis*, controlled by *Neoplectana bibionis*, in Tasmania 587, 1626
- Teleogryllus commodus*, pathogens, in Victoria 1055
- Tetranychus urticae*, integrated control, in Western Australia 1137
- Typhlodromus occidentalis* against, in New South Wales 438
- Therioaphis trifolii*, controlled by *Trioxys complanatus*, in Western Australia 1049
- natural enemies, in Queensland 1573
- Therioaphis trifolii maculata*, natural enemies, in New South Wales 438
- Xanthium pungens*, biological control, in Queensland 787

Austria

- Euphorbia* spp., attacked by *Chamaespeceia* spp. 811
- Ostrinia nubilalis*, *Trichogramma evanescens* against 13, 1550

- Austropeplea ollula*, preyed on by *Sepedon aenescens* 1313
- Autoba olivacea*, susceptible to *Paecilomyces farinosus* 1507
- Autographa biloba*, in USA 1574
- parasitised by *Litomastix truncatella* 1574
- Meteorus autographae* 1574
- preyed on by *Coleomegilla maculata* 1574
- Geocoris* spp. 1574
- Hippodamia convergens* 1574
- Nabis roseipennis* 1574
- Tropiconabis capsiformis* 1574
- Autographa californica*, NPV, bioassay technique 870
- contamination 1391
- infecting *Agrotis ipsilon* 519
- Automeris janus*, parasitised by *Belvosia formosa*, in Trinidad 1188
- Avocado, *Amorbia* sp., integrated control, in USA 1169
- Boarmia selenaria*, *Bacillus thuringiensis* against, in Israel 1168
- natural enemies, in Israel 184, 650
- Cryptoblabes gnidiella*, biological control, in Israel 1168
- Pseudococcus longispinus*, integrated control, in Israel 649, 1168
- Sabulodes caberata*, integrated control, in USA 1169
- Aysha gracilis*, preying on *Heliothis virescens* 1642
- Azolla caroliniana*, attacked by hybrid carp 833
- Azotus*, parasitising *Pinnaspis aspidistrae* 640
- Azya*, taxonomy 1428
- Babesia*, infecting rodents, in UK 245
- Baccharis halimifolia*, insects against, in Australia 787
- Baccharis pilularis*, alternate host for grape pest parasites, in USA 1102
- Bacillus*, infecting *Costelytra zealandica* 40
- Papilio demoleus* 641
- inhibiting conifer root-rot pathogens 1241
- Peniophora sacrata* 620
- Rhizoctonia solani* 1094
- Bacillus alvei*, pathogenic to mosquitoes 259
- Bacillus brevis*, pathogenic to mosquitoes 259
- Bacillus cereus*, effect of tree sap 1720
- infecting *Ostrinia nubilalis* 516
- Pectinophora gossypiella* 128
- Phyllophaga anxia* 549
- Bacillus penetrans*, against *Meloidogyne* spp., in West Africa 116
- infecting *Meloidogyne exigua* 657
- sugarcane nematodes 1547
- Bacillus popilliae*, against white grubs, in China 26
- Bacillus sphaericus*, against mosquitoes, in India 260
- in Sri Lanka 1814

- in Thailand 1467
- in USA 267, 1284, 1285, 1812, 1813
- field use guidance 1286
- infecting mosquitoes 1288
- effect of culture substrate 869
- persistence 1287
- susceptibility of *Aedes aegypti* 751
- Aedes stimulans* 746
- Anopheles albimanus* 751
- Culex* spp. 750, 751
- Bacillus thuringiensis*, aerial application 1992
- against *Adoxophyes orana*, mode of action 155
- Artogeia rapae*, in USA 1605, 1608
- Boarmia selenaria*, in Israel 1168
- cabbage pests, effect on natural enemies, in USSR 96
- Choristoneura fumiferana*, in Canada 1194, 1228
- in USA 1228, 1229
- Crocidolomia binotalis*, in Malaysia 100
- Dendrolimus punctatus*, in China 216
- Diatraea saccharalis*, in Brazil 513, 514
- in Peru 1555
- Dione junio junio*, in Brazil 1691
- Ephestia cautella* 1772
- Erinnyis ello*, in Brazil 559
- Eupoecilia ambiguella*, in Switzerland 588
- Euproctis chrysorrhoea*, in USSR 1721
- Galleria mellonella*, in Pakistan 723
- Heliothis armigera*, in Australia 1108
- Heliothis virescens*, bioassay 868
- Heliothis* spp., in Brazil 1613
- Hyphantria cunea*, in Bulgaria 1192
- in USSR 1721
- jute pests, in India 1114
- Leucoma salicis*, in Bulgaria 1192
- Lobesia botrana*, in Switzerland 588
- Lymantria dispar*, in USSR 194, 673
- Malacosoma* spp., in USA 677
- Oiketicus kirbyi*, in Colombia 1171
- Orgyia pseudotsugata*, in Canada, 1234
- Ostrinia nubilalis* 1994
- in Romania 517
- Phthorimaea operculella*, in Brazil 1613
- Plodia interpunctella* 1771, 1772
- Plutella xylostella* 1608
- Prays citri*, in Italy 170
- Prays oleae*, in France 647
- in Italy 1167
- soyabean pests, in USA 72
- Spodoptera frugiperda*, in Peru 1555
- in USA 616, 1605
- Spodoptera littoralis* 1472
- Syntomeida epilais jucundissima*, in USA 712
- Thaumetopoea pityocampa*, in Bulgaria 1192
- Trichoplusia ni*, in Brazil 1613
- in USA 98, 1605, 1608

***Bacillus thuringiensis* (contd.)**

- controlling *Archips rosanus*, in Italy 1158
distribution in soils, in USA 1897
effect of tree sap 1720
effectiveness 1000
importance in pest management 952
in disease vector control, review 434
in integrated control, review 1463
infecting
 Anopheles spp. 1278
 Argas persicus 1968
 Cimex lectularius 1968
 Culex spp. 1278
 Dermacentor marginatus 1968
 Dermanyssus gallinae 1968
 Ephestia spp. 1249
 Goniocotes gallinae 1968
 Haemaphysalis punctata 1968
 Operophtera brumata 1192
 Ornithodoros lahorensis 1968
 Oxydia trychiata 1710
 Plodia interpunctella 1249
persistence in field 491
risk-analysis in registration 951
screening 120
- Bacillus thuringiensis aizawai***
against
 Heliothis armigera 1645
 mosquitoes, activity 1279
mode of action 1001
- Bacillus thuringiensis dendrolimus***
against
 Erannis defoliaria, in USSR 1730
 Heliothis armigera, in USSR 596
 Hypoderma bovis 1832
 Malacosoma neustria, in USSR 676
 Operophtera brumata, in USSR 1730
 Tortrix viridana, in USSR 709, 1730
infecting *Plutella xylostella* 1982
- Bacillus thuringiensis entomocidus***
against
 mosquitoes, activity 1279
 Spodoptera exigua 1645
 Spodoptera littoralis 1111, 1645
- Bacillus thuringiensis finitimus***,
infecting *Buzura suppressaria* 1181
- Bacillus thuringiensis galleriae***
against
 Acyrtosiphon pisum, in USSR 81
 apple pests, in Poland 1132
 forest pests, in USSR 193, 194
 Hypoderma bovis 1832
 Loxostege sticticalis, in Bulgaria 545
 Mamestra brassicae, in USSR 1602
 mosquitoes, activity 1279
 Pieris brassicae, in USSR 572, 1602
in integrated control, in USSR 1371
stability in soil 1897
susceptibility of *Aedes aegypti* 743
- Bacillus thuringiensis israelensis***
against
 chironomids, in USA 1294
 mosquitoes
 activity 1279, 1282
 in Indonesia 1283
 in Thailand 1467
 in UK 283
 in USA 261, 263, 264, 265, 266
 267, 1284, 1285, 1807, 1808,
 1812, 1813
 simuliids, in Canada 757
 Simulium ochraceum, in
 Guatemala 759
- Simulium vittatum* 277
 Simulium spp., in USA 1297
controlling *Culex quinquefasciatus*,
in Sri Lanka 1814
effect of weeds on movement 1806,
1819
evaluation of formulations 1809,
1810, 1811
field use guidance 1286
infecting
 mosquitoes 1288
 Simulium spp. 1296
protease activity 1281
safety to non-target organisms 749
specificity 285, 1280
susceptibility of
 Aedes aegypti 743, 745
 Aedes stimulans 746
 Anopheles albimanus 747
 Anopheles stephensi 748
 Culex pipiens pallens 744
 Culex quinquefasciatus 747
 Lutzomyia longipalpis 1821
 Phlebotomus papatasi 1821
 Simulium vittatum 758
- Bacillus thuringiensis kenyae***
against *Amsacta moorei*, in India
520
not affecting mosquitoes 744
description 1444
- Bacillus thuringiensis kurstaki***
against
 Achaea janata, in India 566
 Adisura atkinsoni, in India 1597
 apple pests, in Poland 1132
 Choristoneura fumiferana, dosing
 technique 1923
 Crocidolomia binotalis, in India
 1597
 Cydia pomonella, in Bulgaria 1660
 Earias vittella, in India 1597
 Euproctis chrysorrhoea, in
 Greece 704
 Heliothis armigera
 in India 1597
 in USSR 1981
 Hyphantria cunea, in USSR 1981
 Leucinodes orbonalis, in India 1597
 Leucoma wiltshirei, in Iran 675
 Loxostege sticticalis
 in Bulgaria 545
 in USSR 1981
 Ostrinia nubilalis, in Romania 517
 Pandemis heperana, in Bulgaria 1660
 Plutella xylostella
 in India 1078, 1597
 in Malaysia 1077
 Spilosoma obliqua, in India 1074
 Thaumetopoea pityocampa, in
 Greece 704
effect of insecticides 345
infecting
 Apanteles glomeratus 1522
 Lymantria dispar 1725
 Pimpla turionellae 1522
mode of action 1001
persistence on cotton leaves 1109
stability in soil 1897
susceptibility of
 Aedes aegypti 743
 Heliothis armigera 1645
- Bacillus thuringiensis kyushuensis***,
activity against mosquitoes 1279
- Bacillus thuringiensis ostrinae***, not
affecting mosquitoes 744
- Bacillus thuringiensis thuringiensis***
against
 apple pests, in Poland 1132
 Euproctis chrysorrhoea, in
 Greece 704
 Heliothis armigera, in USSR 596
 Leucoma wiltshirei, in Iran 675
 Ostrinia nubilalis, in Romania 517
 Plutella xylostella in Malaysia 1077
 Thaumetopoea pityocampa, in
 Greece 704
avoided by *Mamestra brassicae* 573
effect of UV 492
effect on
 Achaea janata 566, 613, 1073
 Heliothis armigera 1110
 plasmid formation 1510
 susceptibility of *Aedes aegypti* 743
- Bacillus thuringiensis tianmensis***, against
Cnaphalocrocis medinalis, in China
1560
- Bacillus thuringiensis tochiensis***,
description 1444
- Bacillus thuringiensis tolworthi***,
activity against mosquitoes 1279
- Bactospeine**
against
 apple pests, in Poland 1132
 Crocidolomia binotalis, in
 Malaysia 100
 Euproctis chrysorrhoea, in
 Greece 704
 Leucoma wiltshirei, in Iran 675
 Ostrinia nubilalis, in Romania 517
 Plutella xylostella, in Malaysia 1077
 Thaumetopoea pityocampa, in
 Greece 704
effect on
 Achaea janata 566, 1073
 Spodoptera litura 613
- Bactra verutana***, attacking *Cyperus* spp.
1325, 1326
- Baculovirus**
infecting
 Epinotia aporema 537
 Lymantria dispar 1725, 1726
 Plutella xylostella 1982
- Baculovirus heliothis***, against *Heliothis*
spp., in USA 72
- Baculovirus oryctes***
against *Oryctes rhinoceros*, in
Western Samoa 186
controlling *Oryctes rhinoceros*, in
South Pacific 1700, 1701
- Bahamas**
Tribulus spp., attacked by
 Microlarinus lypriformis 1337
- Ballia eucharis***, preying on *Aphis*
craccivora 1456
- Balyana***, parasitised by *Oligosita*
robusta, in Madagascar 399
- Banana**
 Cosmopolites sordidus, infected
 by *Beauveria bassiana*, in
 Brazil 1170
 Fusarium oxysporum cubense,
 controlled by antagonists, in
 Taiwan 652
 Metamastus hemipterus, infected by
 Beauveria bassiana, in Brazil 1170
 Oiketicus kirbyi, controlled by natural
 enemies, in Colombia 1171

Bangladesh

- Eichhornia crassipes*, attacked by
Aethis pecinicornis 320
Exorista sorbillans, parasitised by
Nesolynx thymus 1780
Ludwigia octovalvis, attacked by
Altica foveicollis 322
Pistia stratiotes, attacked by *Aethis*
pectinicornis 320

Barbados

- Diatraea saccharalis*, parasites
 against 1

Baregonalis canadensis, parasitising
Vespula spp. 1307***Baris arcithorax***, attacking *Portulaca*
oleracea, biology, 809**Barley**

- Aelia rostrata*, parasites, in Turkey
 1569
Alternaria alternata, inhibited by
Streptomyces olivaceus, in
 India 37
 cereal aphids, beetle predators, in
 Sweden 1043
Diuraphis noxia, natural enemies, in
 USSR 31
Rhopalosiphum maidis, predators,
 in India 1962
Rhopalosiphum spp., natural enemies,
 in Canada 33
Sitobion avenae, natural enemies,
 in Canada 33

Barylypa amabilis, parasitising *Heliothis*
viropilata 61***Barylypa delictor***, parasitising *Heliothis*
viropilata 61***Barylypa humeralis***
 parasitising

- Agrotis segetum* 1957
Spodoptera littoralis 592

Bassania schreiteri, control methods, in
 Colombia 1711***Bathythrix***, revision 376***Batrachedra amydraula***

- parasitised by *Phanerotoma* sp.,
 in Iraq 1472
 preyed on by *Crematogaster* spp.,
 in Yemen 1706

Batrachium rionii, controlled by
Ctenopharynx odon idella, in
 USSR 1350***Bdella***, preying on *Lymantria dispar* 670***Bdellovibrio bacteriovorus***, inhibiting
Pseudomonas spp. 509**Beans**

- Adisura atkinsoni*, *Bacillus*
thuringiensis against, in India 1597
Amsacta moorei, parasites, in India
 1067
Anticarsia gemmatilis, parasitised by
Euplectrus putleri, in USA 555
Aphis craccivora, preyed on by
Motacilla spp., in India 83
Aphis fabae, fungi against, in UK 1065
 arthropod fauna, sampling technique
 357
Piezodorus guildinii, parasitised by
Telenomus mormideae, in Brazil 82
Pseudoplusia includens, preyed on by
 spiders, in Peru 1583
Rhizoctonia solani, inhibited by
Gliocladium virens, in Canada 556
Beauveria, infecting *Rachiplusia nu* 1967
Beauveria bassiana
 against
Cyclas sp., in Solomon Islands 955
Cydia pomonella 147

Dendroctonus frontalis 220***Dendrolimus punctatus***, in China
 216***Hoplocampa testudinea***, in Poland
 624, 625***Leptinotota decemlineata***, in France
 113***Lissorhoptrus brevisrostris*** 529***Lymantria xylinia***, in China 1729***Otiorynchus sulcatus***, in Sweden
 1096***Spodoptera littoralis*** 1472effect of
 pesticides 863, 1388

UV 492

in integrated control, in USSR 1371

infecting

Blissus leucopterus hirtus 542*Chrysomphalus aonidum* 1680*Corythucha ciliata* 1738*Cosmopolites sordidus* 1170*Curculio caryae*, effect of

fungicides 1388

Cydia pomonella 1130*Diatraea saccharalis* 1967*Galleria mellonella* 722*Leucoma wilshirei* 675*Metamasius hemipterus* 1170*Orthaga euadrusalis* 1173*Ostrinia nubilalis* 516*Otiorynchus meridionalis* 584*Phyllophaga anxia* 549*Pieris brassicae* 1521*Pseudophilus testaceus* 660*Pyrrhopyge pelota* 1967*Scolytus scolytus* 683*Strathmorrhopa aphostista* 689*Synanthedon salmachus* 1625inhibited by *Penicillium urticae* 2076

mass production 1409

nutritional requirements 997

stability in soil 1414

veterate safety 885

virulence in *Curculio caryae* 1672***Beauveria tenella***against *Hoplocampa testudinea*, in

Poland 624, 625

infecting *Galleria mellonella* 722

pathogenic to mosquitoes 259

Bedellia somnulentellaattacking *Convolvulus arvensis* 801,

989

life history 989

Beech*Cryptococcus fagisuga*, predators, in

France 208

Belgiumcereal aphids, parasitised by *Aphidius**frumentarius* 1928

epigeal arthropods 617

Belvosia formosa, parasitising *Automeris**janus* 1188***Bembidion lampros***

preying on

Delia brassicae 1610*Delia coarctata* 25*Delia radicum*, effect of insecticides

575

Opomyza florum 25***Bembidion properans***

preying on

Delia coarctata 25*Opomyza florum* 25

wheat pests 1040

Bembidion quadrimaculatum

preying on

Delia coarctata 25*Eurygaster integriceps* 29*Opomyza florum* 25***Bembidion quadrimaculatum oppositum***,preying on *Diabrotica longicornis* 15***Bembidion ustulatum***

preying on

Delia coarctata 25*Opomyza florum* 25***Bembix bicolor***, preying on tabanids 763***Bembix gracilis***, preying on tabanids 763***Bembix kazakhstanica*** preying on

tabanids 763

Bembix oculata, preying on tabanids 763***Bembix transcaspica***, preying on tabanids

763

Bemisia giffardi, infected by *Aschersonia**aleyrodii*, in China 1680***Bemisia tabaci***infected by *Paecilomyces farinosus*,

mode of penetration 998

parasitised by

Encarsia lutea 383*Encarsia* spp., in Brazil 1930*Prosopaltella flava*, in India 1590***Bessa harveyi***, parasitising *Pristiphora**erichsonii* 707***Bezzia***, infected by *Toxogluea**variabilis*, in Sweden 276***Bilia castanea***, preying on *Lipaphis erysimi*

1596

Binodoxys communis, synonyms 380***Biomphalaria***infected by *Cercaria blukwa*, in

Tanzania 780

preyed on by

Marisa cornuarietis 779*Sepedon aenescens* 1313***Biomphalaria glabrata***

competitors 1840

controlled by

Helisoma duryi 1311*Thiara granifera*, in the

Caribbean 1312

in Guadeloupe 1288

in St. Lucia 1310, 1311

in Venezuela 1840

preyed on by

Macrobrachium spp. 1310*Sarotherodon mossambica* 781*Tilapia rendalli* 781*Ribeiroia marini* against 1288***Biomphalaria pfeifferi***, eliminated by*Marisa cornuarietis*, in Tanzania

1837

Biorhiza weldi, parasitised by *Torymus**ringofuschi*, in Japan 398***Biosteres longicaudatus***

optimal foraging strategy 2046

parasitising

Anastrepha suspensa

effect of diflubenzuron

1374

host location 960

Ceratitis capitata 1693***Biosteres melleus***, parasitising *Rhagoletis**pomonella* 1663***Biosteres oophilus***, parasitising*Ceratitis capitata* 1693**BIP**, against *Lymantria dispar*, in

USSR 673

Birch*Ancylis discigerana*, natural enemies,

in USA 1211

- Elasmucha lateralis*, parasitised by *Phasiomyia splendida*, in USA 209
- Epirrita autumnata*, preyed on by *Formica autumnata*, in Finland 687
- Lymantria dispar*, bird predators, in Japan 204
- Birdiavirus diprionis*, against *Neodiprion sertifer*, in Czechoslovakia 1753
- Bissetia steniella**
Apanteles spp. against 4
 in India 4
Tetrastichus israeli against 4
Trichogramma spp. against 4
- Bitoksibacillin**, against forest pests in USSR 1721
- Blackcurrants**
Cecidophyopsis ribis, infected by *Verticillium lecanii*, in UK 1627
Synanthedon salmachus, natural enemies in New Zealand 1625
Synanthedon tipuliformis, controlled by *Neoplectana bibionis*, in Australia 587, 1626
- Blaesoxipha pachytyli**, parasitising locusts 68
- Blaesoxipha similis**, parasitising locusts 68
- Blarina brevicauda**, preying on *Microtus pennsylvanicus* 1256
- Blastesthia turionella**, parasitised by *Glypta resinanae*, in Poland 703
- Blastocrithidia triatoma**, rearing technique 1407
- Blastothrix confusa**
 parasitising
Parthenolecanium corni 1763
 yew scale 709
- Blastothrix hedqvisti**, parasitising yew scale 709
- Blastothrix sericea**, parasitising *Eulecanium tiliae* 124
- Blatta orientalis**, parasitised by *Tetrastichus hagenowii* 288
- Blattella germanica**, not parasitised by *Tetrastichus hagenowii* 288
- Blattisocius**, preying on stored products mites 719
- Blattisocius tarsalis**
 preying on
Ephestia cautella 1770
Tribolium castaneum 1770
- Blepharidopterus angulatus**, preying on apple pests 159, 626
- Blepyrus insularis**
 parasitising
Ferrisia virgata 87
Icerya formicarum, taxonomy 1936
- Blissus leucopterus hirtus**
 in USA 542
 infected by *Beauveria bassiana* 542
 parasitised by *Eumicrosoma beneficum* 542
 preyed on by *Amara* sp. 542
- Boarmia selenaria**
Bacillus thuringiensis against 1168
 in Israel 184, 650, 1168
 parasitised by
Apanteles cerialis 184, 650
Compsilura concinnata 184
Exorista sp. 184
 susceptible to *Nomuraea rileyi* 184
- Boletus**, inhibiting *Rhizoctonia solani* 1240
- Bombyliidae**, from Saudi Arabia 431
- Bombylius**, taxonomy 1946
- Bombyx mori**, susceptible to
Neoplectana carpocapsae 1781
- Bonnetia comita**, parasitising *Agrotis ipsilon* 1022
- Boophilus decoloratus**, preyed on by *Buphagus erythrorhynchus*, in South Africa 289
- Bothriothorax clavicornis**, parasitising syrphids 459
- Botrytis cinerea**
 inhibited by
Teratosperma oligocladum 1129
Trichoderma viride, interaction 1529
- Boverin**, in integrated control, in USSR 1371
- Brachycaudus helichrysi**
 in Yugoslavia 567
 preyed on by
Coccinella septempunctata 567
Hippodamia spp. 567
Propylea quatuordecimpunctata 567
Scymnus sp. 567
- Brachymeria**
 parasitising
Archips semistructus 1124
Sarcophaga albiceps 1648
Sylepta derogata 597
- Brachymeria exacinata**, parasitising *Cnaphalocrocis medinalis* 527
- Brachymeria intermedia**
 parasitising *Lymantria dispar*,
 effect of host diet 1723
 sex pheromone 461
- Brachymeria lasus**
 parasitising
Lymantria dispar 202
Orthaga euadruisalis 1172
 sex pheromone 461
- Brachys tessellatus**, natural enemies, in USA 1731
- Bracon**
 against *Heliothis armigera*, in USSR 595
 parasitising
Agromyza sp. 1024
Procecidochares utilis 1334
- Bracon brevicornis**
 parasitising
Corcyra spp. 1769
Ephestia spp. 1769
Opisina arenosella
 effect of adult food 1995
 oviposition behaviour 1185
Plodia spp. 1769
Sitotroga spp. 1769
 rearing technique 1396, 1397
 reproduction biology 1478
- Bracon gelechia**, parasitising *Pectinophora gossypiella* 127
- Bracon greeni**
 parasitising
Chlumetia transversa 1172
Eublemma amabilis 725
Holcocera pulvereana 725
- Bracon hebetor**
 controlling *Ephestia cautella*, in USA 1768
 host preference 959
 parasitising
Corcyra spp. 1769
Ephestia cautella, effect of insecticides 1248
- Ephestia* spp. 1769
Galleria mellonella 1260
Plodia spp. 1769
Sitotroga spp., 1769
 reproductive potential 1767
- Bracon kirkpatricki**, possible introduction to Pakistan 127
- Bracon laetus**
 parasitising
Ochromolopsis staintonella 1687
Prays spp. 1687
- Bracon mellitor**
 parasitising
Anthonomus spp. 1632
Microlarinus lareynii 1632
- Bracon platynotae**, effect of temperature 460
- Braconidae**
 from
 Bulgaria 378
 Japan 916
 systematics 1927
- Bradynema kurochikini**, infecting *Ctenophthalmus teres*, description 769
- Bradyrhoo gilveolella**
 against, *Chondrilla juncea*, in Australia 821, 1860, 1862
 rearing 821
- Brazil**
Atta cephalotes, infected by *Cordyceps unilateralis* 610
Bemisia tabaci, parasitised by
Encarsia spp., in Sao Paulo 1930
 cassava arthropods, in Minas Gerais 558
Cosmopolites sordidus, infected by *Beauveria bassiana* 1170
Crinipellis perniciosa, inhibited by *Cladobotryum amazonense*, in Amazonia 1696
Diatraea saccharalis
Bacillus thuringiensis against, in Sao Paulo 513, 514
 biological control, review 1533
 infected by *Hexameris* sp. 3
Diatraea spp., *Apanteles flavipes* against 6, 7
Dione junio junio, *Bacillus thuringiensis* against 1691
Dysdercus spp., parasites, in Rio de Janeiro 1633
Erinnyis ello, natural enemies 558, 559, 560
Euselasia eucerus, parasitised by *Trichogramma maxacalii* 401
Hymenomima extersaria, parasites, in Parana 1694
Lantana camara, attacked by *Mcgregorella depicta* 793
Mahanarva posticata, *Metarhizium anisopliae* against 6, 7, 8
Metamasius hemipterus, infected by *Beauveria bassiana* 1170
 mosquitoes, susceptibility to
Bacillus thuringiensis israelensis 1282
Nezara viridula, parasitised by *Trissolcus basal*, in Parana 1651
Oediopalpa guerini, parasitised by *Trichogramma semifumatum*, in Maranhao 1561
Parthenium hysterophorus, attacked by *Listonotus setosipennis* 787
Perileucopterus coffeella, parasites, in Parana 656
Phthorimaea operculella, *Bacillus thuringiensis* against, in Sao Paulo 1613

Brazil, (contd)

- Piezodorus guildinii*, parasitised by
Telenomus mormideae, in Rio Grande do Sul 82
- Polygenis tripus*, infected by nematodes, in Minas Gerais 768
- Salvinia molesta*, natural enemies 821, 1361
- Sclerotium rolfsii*, *Trichoderma viride* against 515
- soyabean insects 71, 74, 75
- Spodoptera frugiperda*, parasites, in Parana 518
- Tityus serrulatus*, preyed on by
Camponotus abdominalis 776
- Trichoplusia ni*
Bacillus thuringiensis against, in Sao Paulo 1613
- natural enemies, in Parana 1638
- Xanthomonas campestris*, inhibited by bacteriophage 1083
- Brevibacterium ammoniagenes*, effect of tree sap 1720
- Brevicoryne brassicae*
in India 1378, 1963
- in Peru 1959
- in Romania 571
- in USSR 2069
- natural enemies, effect of insecticides 571, 1378
- parasitised by *Diaeretiella rapae* 1959
- predators, evaluation 2069
- preyed on by
Coccinella septempunctata 1378
- Metasyrphus corollae* 1963
- Brevipalpus californicus*, natural enemies in Italy 176
- Brevipalpus obovatus*, predators, in Egypt 604
- Brevipalpus phoenicis*
natural enemies, in Italy 176
- predators, in Egypt 604
- preyed on by *Amblyseius ovalis*, in Pacific 424
- Brochymena arborea*, parasitised by
Trichopoda plumipes, in USA 1734
- Brochymena cariosa*, parasitised by
Trichopoda plumipes, in USA 1734
- Brochymena sulcata*, parasitised by
Trichopoda plumipes, in USA 1734
- Brontispa longissima*
in Solomon Is. 1702
- Oecophylla smaragdina* against 1702
- Tetrastichus brontispae* against 1702
- Brosicus cephalotes*, preying on
Leptinotarsa decemlineata 1093
- Bryobia rubrioculus*, predators, in USA 627, 1008
- BTB, against cabbage pests, effect on natural enemies, in USSR 96
- Bubas bison*, behaviour 297
- Bubas bubalus*, behaviour 297
- Bubo virginianus magellanicus*
preying on
Oryctolagus cuniculus 1252
- Rattus rattus* 1252
- Bucculatrix thurberiella*
in Colombia 1106
- in Peru 1644, 1926
- parasitised by
Agriaspis bucculatricis 1644
- Apanteles* sp. 1644
- Catolaccus* sp. 1644
- Chrysonomomyia* sp. 1644
- Closterocerus cinctipennis* 1644
- Eupelmus* sp. 1644
- Leurionotus primum* 1644, 1926
- Spilochalcis* sp. 1644
- Zagrammoisoma variegatum* 1644
- preyed on by
Theridion spp. 1644
- Theridula* spp. 1644
- Bulgaria**
- Braconidae 378
- Cydia pomonella* control methods 1660
- dung beetles 1845
- Eotetranychus pruni*, predators 1629
- Exoristinae 919
- forest pests, infected by *Bacillus thuringiensis* 1192
- integrated control, using *Trichogramma* spp. 340
- Lepidosaphes ulmi*, preyed on by
Hemisarcophaga malus 1668
- Loxostege sticticalis*, *Bacillus thuringiensis* against 545
- Lymantria dispar*, parasitised by *Anastatus japonicus* 669
- Myzus persicae*, *Chrysopa* spp. against 1117
- Oulema* spp., parasites 1568
- Pandemis heperana*, control methods 1660
- Trialeurodes vaporariorum*, *Aschersonia* spp. against 1088
- Bulinus*, preyed on by *Sepedon aenescens* 1313
- Bulinus guernei*, controlled by *Ambrosia maritima* 1841
- Bulinus tropicus*, eliminated by *Marisa cornuarietis*, in Tanzania 1837
- Bulinus truncatus*, predators, in Egypt 1839
- Bupalus piniarius*, parasitised by
Poecilostictus cothurnatus, in Netherlands 1747
- Buphagus africanus*, preying on ticks 774
- Buphagus erythrorhynchus*
preying on
Boophilus decoloratus 289
- Rhipicephalus appendiculatus* 289
- Burenella dimorpha*, spore cleaning technique 883
- Bursaphelenchus wekuae*, infecting bark beetles 197
- Buzura suppressaria benescripta*, infected by *Bacillus thuringiensis*, in China 1181
- Cabbage**
- Artogeia rapae*
Bacillus thuringiensis against, in USA 1608
- infected by viruses, in China 1079, 1080, 1081
- natural enemies
in USSR 95, 96
- interaction 1603
- Brevicoryne brassicae*, natural enemies, effect of insecticides 571
- Crociodolomia binotalis*
Bacillus thuringiensis against
in Malaysia 100
- in India 1597
- Delia radicum*, parasites 1082
- Mamestra brassicae*
natural enemies, in USSR 96, 97
- Trichogramma euproctidis* against, in USSR 1602
- Trichogramma* spp. against, release technique 370
- Pieris brassicae*
natural enemies, in USSR 95, 96
- 97
- Trichogramma euproctidis* against, in USSR 1602
- Plutella xylostella*
Bacillus thuringiensis against
in India 1597
- in USSR 96
- hyperparasites 99
- infected by *Zoothora radicans*, in Malaysia 1077
- parasites, in Poland 1076
- Spodoptera frugiperda*, *Bacillus thuringiensis* against, in USA 616
- Trichoplusia ni*
pathogen mixtures against 98
- preyed on by *Labidura riparia* 1606, 1607
- Xanthomonas campestris*, inhibited by bacteriophage, in Brazil 1083
- Cacoecimorpha pronubana*, parasitised by
Macrocentrus rossomi, in Mediterranean region 1925
- Cactoblastis bacyrus*, against *Opuntia* spp., in Canada 799
- Cactoblastis cactorum*
against *Opuntia* spp., in Australia 821
- oviposition behaviour 1853
- Cactoblastis doddii*, against *Opuntia* spp., in Canada 799
- Caenopsylla laptevi*, parasitising *Oryctolagus cuniculus* 239
- Caenorhabditis dolichura*, infecting
Curculio elephas 636
- Cajrab, against vegetable pests, in India 1597
- Calacarus carinatus*
in India 1698
- preyed on by
Acarus sp. 1698
- Amblyseius* spp. 1698
- Tydeus* sp. 1698
- Cales noacki*, effect of pesticides 342
- Callaspida defonscolombei*, parasitising syrphids 459
- Callidosoma matsumuratettix*, parasitising
Matsumuratettix hiroglyphicus 10
- Calliephialtes grapholithae*, parasitising
Acrobasis juglandis 166
- Callosobruchus maculatus* parasitised by
Anisopteromalus calandrae, host-searching model 1523
- Calocoris trivialis*
in Italy 972
- parasitised by
Telenomus lopicida 972
- Tetrastichus miridivorus* 972
- Calosoma auropunctatum*, preying on
Eurygaster integriceps 29
- Calosoma denticolle*, preying on
Eurygaster integriceps 29
- Calvia*, preying on *Aphis craccivora* 1456
- Calvia quattuordecimguttata*, biology 476
- Campotetis chloideae*, parasitising *Aedia leucomelas* 1446
- Campoletis grioti*
parasitised by *Spilochalcis ruffinellii* 518
- parasitising *Spodoptera frugiperda* 518
- Campoletis sonorensis*
parasitising *Heliothis virescens*
competition with *Chelonius insularis* 462
- suppression of host immune response by virus 463
- Camponotus**
infected by *Cordyceps unilateralis*, in Brazil 610
- preying on
Cnaphalocrosis medinalis 19
- Ocnogyna loewii* 1575
- Camponotus abdominalis*, preying on
Tityus serrulatus 776

Campoplex frustranae

against *Rhyacionia frustrana*, in USA 701

parasitising *Rhyacionia frustrana* 214

Campoplex restrictor, parasitising *Epiphyas postvittana* 228**Campylomma verbasci**

preying on apple pests 626

effect of food sprays 158

Canada

Adelges piceae, *Hemerobius* spp.

against, in New Brunswick 708

Amaranthus spp., biology 314

aphids, preyed on by coccinellids 2047

Aphis pomi, preyed on by *Aphidoletes*

aphidimyza, in Quebec 1134

apple pests, predators, effect of food sprays, in Ontario 158

Artogeia rapae, interaction of natural enemies, in Ontario 1603

Carduus spp., natural enemies 1319

chironomids, infected by *Tetrahymena* spp., in Ontario 1292

Choristoneura conflictana, parasites, in Alberta 1737

Choristoneura fumiferana

Bacillus thuringiensis against 1194, 1228

microsporidia against, in Ontario 1231

natural enemies, in Newfoundland 1194, 1230

Cirsium arvense

attacked by *Aphis barberae*, in Ontario 303

Ceutorhynchus litura against 1850

infected by *Puccinia punctiformis* 821

Coleophora laricella, parasites against, in British Columbia 1742

Cydia pomonella, GV against 1131

Delia radicum, natural enemies, effect of insecticides 575

Diabrotica longicornis, preyed on by carabids, in Ontario 15

Diaphnocoris chlorionis, parasitised by *Leiothron maculipennis*, in Ontario 226

Diastrophus kincaidii, parasitised

by *Pteromalus gallicolus*, in British Columbia 586

Equisetum arvense, biology 317

Eucraphis gillettei, parasitised by *Endaphis gregaria*, in British

Columbia 1426

Euxoa messoria, parasites, in Ontario 1452

Fenusa pusilla parasite introductions, in Quebec 688

glasshouse aphids, biological control 1611

Hypera postica

infected by *Zoophthora phytonomi*, in Ontario 534

parasitised by

Microctonus aethiopoides, in Ontario 55

Patasson luna in Alberta 1570

insect fauna, effect of human settlement 931

Lambdina fiscellaria, controlled by

Entomophthora spp., in Newfoundland 1238

Lymantria dispar, parasites, in Quebec 1203, 1724

Malacosoma disstria

microsporidia against, in Ontario 192, 1231

NPV against in Alberta 685

Microtus pennsylvanicus

preyed on by

Blarina brevicauda 1256

Mustela erminea, in Quebec 1777

mirids, euphorine parasites, in Ontario 416

mosquitoes

Bacillus thuringiensis israelensis

against 1809

infected by mermithid, in Labrador 1794

preyed on by *Chaoborus cooki*, in Alberta 731

natural enemy releases 924, 925, 926, 1971, 1972, 1973

Operophtera brumata, biological control, in British Columbia 1193

Operophtera spp., parasites, in British Columbia 205

Opuntia spp., *Cactoblastis* spp. against 799

Orgyia pseudotsugata, *Bacillus thuringiensis* against, in British

Columbia 1234

Ostrinia nubilalis, preyed on by *Agelaius phoeniceus*, in

Quebec 1018

Phyllophaga anxia, natural enemies, in Quebec 433, 549

Pissodes strobi, preyed on by *Lonchaea corticis*, in British Columbia 222

Plantago lanceolata, biology 316

Pristiphora erichsonii

natural enemies, in New

Brunswick 707

Pleistophora schubergi against

217

Rhizoctonia solani, inhibited by *Gliocladium virens* 556

Rhopalosiphum maidis, coccinellid

predators, in Ontario 11

Rhopalosiphum spp., natural

enemies, in Quebec 33

simuliids

Bacillus thuringiensis israelensis

against, in Newfoundland 757

infected by microsporidia, in

Newfoundland 755, 1818

Sitobion avenae, natural enemies, in Quebec 33

Solidago canadensis, biology 315

Thymelicus lineola, infected by fungi, in Quebec 1576

tree pests, parasitised by *Oedemopsis scabricula*, in British Columbia 915

Canavalia ensiformis, controlling

Atta spp., in Colombia 200

Candazea palmerstoni, attacking

Alternanthera philoxeroides 828

Cantheconidea, preying on *Metrogaleruca obscura* 307

Cantheconidea furcellata, parasitising *Crociodolomia binotalis* 90

Capnodis tenebricosus, attacking

Rumex spp. 1862

Carabidae, preying on cereal aphids, in Sweden 1043

Carabus nemoralis, preying on *Diabrotica longicornis* 15

Carcelia, parasitising *Leucoma candida* 1453

Carcelia corvinoides, parasitising *Euproctis lunata* 1072, 1594

Cardamom

Pentalonia nigronervosa, predators, in India 1650

Cardaria draba, attacked by *Aceria drabae*, in Poland 806

Cardiastethus exiguus, preying on *Phenacoccus manihoti* 87

Cardiastethus nazarenus, biology 991, 992

Cardiophiles nigriceps

parasitising *Heliothis virescens* 594

competition with *Chelonus insularis* 462

Carduus

in USA 302, 821

integrated control 821

natural enemies 1319

Trichosirocalus horridus against, bibliography 302

Carduus acanthoides

attacked by *Rhinocyllus conicus*, effects of crowding 1848

natural enemies against, in Canada 1971

Rhinocyllus conicus against, in USA 300

Carduus macrocephalus

attacked by

Ceutorhynchus trimaculatus 1322, 1849

Trichosirocalus horridus 1322, 1849

in Italy 1322, 1849

Carduus nutans

in Argentina 1846

in Canada 924, 926, 1319, 1971

in New Zealand 821

in USA 300, 301, 1319, 1320, 1321, 1323

Rhinocyllus conicus against 300, 301, 1319, 1320, 1321, 1846

Trichosirocalus horridus against 1319

Carduus pycnocephalus

attacked by

Ceutorhynchus trimaculatus 1322

Trichosirocalus horridus 1322

in Italy 1322

Carduus thoermeri, attacked by

Rhinocyllus conicus, effect of crowding 1848

Cargolia arana, control methods, in Colombia 1711

Carnation

Epichoristodes acerbella, parasites, in Spain 1245

Fusarium oxysporum dianthi, inhibited by *Arthrobacter* sp. in Israel 230

Rhizoctonia solani, *Trichoderma harzianum* against, in Israel 1246

Uromyces dianthi, inhibited by *Verticillium lecanii*, in UK 713

Carob

Acaudaleyrodes citri, parasitised by *Encarsia davidi*, in Israel 383

Carpophilus hemipterus, *Zeteticontus* sp. against, in Hawaii 1177

Carulaspis juniperi, preyed on by *Aleuropteryx juniperi*, in USA 1247

Carulaspis minima, preyed on by *Aleuropteryx juniperi*, in USA 1247

Cashew

Helopeltis antonii, natural enemies, in Sri Lanka 1692

insect fauna, in Thailand 185

- Casinarina*, parasitising *Oxydia trychiata* 1710
- Casinarina anastomosis*, parasitising *Aedia leucomelas* 1446
- Cassava**
- arthropod complex, in Brazil 558
 - Bemisia tabaci*, parasitised by *Prospaltella, flava*, in India 1590
 - Erinnyis ello*
 - biological control, in Colombia 1587
 - natural enemies, in Brazil 558, 559, 560
 - Ferrisia virgata*, parasites, in Congo 87
 - pests, natural enemies, in India 1588
 - Phenacoccus manihoti*
 - natural enemies, in Congo 87, 88, 1070
 - predators, in Nigeria 557, 1069
 - preyed on by *Kalodiplosis coccidarum*, in Colombia 1068
 - Phenacoccus* spp., biological control in Colombia 1587
 - spider mites, predators, in India 1591
 - stemborers, natural enemies, in Colombia 1589
- Cassida sanguinolenta*, attacking *Convolvulus arvensis* 801
- Castianeira*, preying on *Chilo partellus* 14
- Castor**
- Achaea janata*
 - Bacillus thuringiensis* against, in India 566
 - parasitised by *Trichogrammatoidea bactrae*, in India 565
 - Euproctis lunata*, tachinid parasites, in India 1072, 1594
- Catenaria auxilaris*, infecting *Heterodera* spp. 1655
- Catolaccus*, parasitising *Bucculatrix thurberiella* 1644
- Catolaccus ater*, parasitising *Oulema lichenis* 1568
- Catolaccus hunteri*, parasitising *Anthonomus grandis* 1105, 1632
- Caudospora polymorpha*, infecting simuliids 755
- Caudospora simulii*, infecting simuliids 755
- Cauliflower**
- Delia brassicae*, integrated control, in UK 1610
 - Delia radicum*, natural enemies, effect of insecticides 575
 - Plutella xylostella*, *Bacillus thuringiensis* against, in India 1078
 - Spodoptera litura*, NPV against, in India 574
- Cavariella*, infected by *Entomophthora planchoniana*, in France 1528
- Cecidophyopsis ribis*, infected by *Verticillium lecanii*, in UK 1627
- Celery**
- Liriomyza* spp., parasites, in USA 1075
- Cenopalpus lanceolatisetae*, integrated control, in Egypt 1472
- Centaurea diffusa*
 - attacked by *Urophora* spp. 1852
 - infected by *Puccinia* spp., in Europe 791, 821
 - insects against, in Canada 925, 926
- Centaurea maculosa*
 - attacked by *Urophora* spp. 1852
 - natural enemies against, in Canada 925, 1971
- Centaurea picris*, infected by *Paranguina picridis*, in USSR 1338
- Cephalcia lariciphila*
 - infected by *Neoplectana carpocapsae*, in UK 1237
 - parasitised by *Oleiscampe monticola*, host location 957
- Cephaleta brunniventris*, parasitising *Saissetia miranda* 1733
- Cephaleta hayati*, parasitising *Cerococcus* sp., description 1422
- Cephalonomia gallicola*
 - parasitising
 - Gibbium psylloides* 720
 - Stegobium paniceum* 720
- Cephalosporium*, infecting *Ostrinia nubilalis* 516
- Cephanodes hylas*
 - in West Malaysia 654
 - parasitised by
 - Forcipomyia fuliginosa* 654
 - Ooencyrtus malayensis* 654
 - Sycanus leucomesus* 654
- Ceraphron*, parasitising *Apanteles plutellae* 99
- Cerapterocerus*, taxonomy 1937
- Cerapterocerus mirabilis*, hyperparasitising *Sphaerolecanium prunastri* 1142
- Cerataphis palmae*, preyed on by *Ischiodon scutellaris*, in Philippines 984
- Ceratitis capitata*
 - in Costa Rica 1693
 - parasitised by
 - Biosteres* spp. 1693
 - Dirhinus giffardii* 1489, 1490
 - Ganaspis pelleranoi* 1693
 - Odontosema anastrephae* 1693
 - preyed on by *Cardiastethus nazarens* 991, 992
 - susceptible to
 - Heterorhabditis heliothidis* 1160
 - Neoplectana carpocapsae* 1160
- Ceratophyllum*, attacked by *Paraponyx rugosalis* 1357
- Ceratophyllum demersum*, attacked by hybrid carp 833
- Ceratophyllum caspius*, infected by *Aphanitylenchus* spp., in USSR 769
- Ceratophyllum consimilis*, infected by *Aphanitylenchus* spp., in USSR 769
- Ceratophyllum laeviceps*, infected by nematodes, in USSR 769, 1306
- Ceratophyllum rectangulatus*, infected by *Neoparasitylenchus laplandicus*, in USSR 769
- Ceratophyllum tesquorum*, infected by nematodes, in USSR 769
- Ceratosolen marchali*, parasitised by *Apocrypta bakeri*, in India 472
- Cercaria blukwa*, infecting *Biomphalaria* spp. 780
- Cercaria guttera*, infecting *Lymnaea natalensis* 780
- Cercocarpus betuloides*, grazed by goats, in USA 313
- Cercospora chenopodii*, infecting *Chenopodium album* 792
- Cercospora rodmanni*, infecting *Eichhornia crassipes* 827
- Cermatulus nasalis*, preying on *Paropsis charybdis* 690
- Cerococcus*, parasitised by *Cephaleta hayati*, in India 1422
- Ceroplastes destructor**
 - biological control, cost-benefit analysis 427
 - controlled by *Anicetus communis* 1151
 - in Australia 427, 1151
- Ceroplastes floridensis*
 - mortality factors, in Israel 637
 - preyed on by *Chilocorus bipustulatus* 637
- Ceroplastes sinensis*, biological control, in Spain 171
- Ceutorhynchus assimilis*, parasitised by *Mesopolobus morys*, in Yugoslavia 562
- Ceutorhynchus geographicus*, attacking *Echium plantagineum* 1862
- Ceutonhynchus larvatus*, attacking *Echium plantagineum* 1862
- Ceutorhynchus litura*, against *Cirsium arvense*, in North America 1319, 1850
- Ceutorhynchus maculalaba*, attacking *Papaver somniferum*, host specificity 312
- Ceutorhynchus parvulus*, attacking *Cardaria draba* 806
- Ceutorhynchus trimaculatus*
 - attacking *Carduus* spp. 1322, 1323, 1849
 - host range 1322
- Ceutorhynchus turbatus*, attacking *Cardaria draba* 806
- Chaenus rayotus*, preying on *Hyblaea puera* 1213
- Chaenusa*, parasitising *Hydrellia philippina* 1034
- Chaetogaedia ochriceps*, parasitising *Oxydia trychiata* 1710
- Chaetomium globosum*, against *Rhizoctonia solani* 101
- Chaetophorocera*, parasitising *Oxygia trychiata* 1710
- Chalcidoidea**
 - from
 - Norway 1451
 - South Africa 917
- Chamaesphelia empififormis*, attacking *Euphorbia cyparissias* 811
- Chamaesphelia tenthrediniformis*, attacking *Euphorbia esula* 811
- Chaoborus cooki*, preying on mosquitoes 731
- Chara**
 - attacked by
 - hybrid carp 833
 - waterfowl, in Denmark 831
- Chartocerus*, parasitising *Aspidiotus destructor* 1172
- Chartocerus subaeneus*, parasitising *Planococcus vovae* 1449
- Chauliognathus pennsylvanicus*, infected by *Entomophthora lampyridarum*, in USA 229
- Cheiloneurus claviger*, parasitising *Blastothrix sericea* 124
- Cheiloneurus cyanonotus*
 - hyperparasitising *Trioza erytraeae* 1961
 - parasitising *Homalotylus flaminus* 87, 88
- Cheiracanthium*, preying on *Chilo partellus* 14
- Cheiracanthium inclusum*, preying on *Heliothis virescens* 1642
- Cheiracanthium melanostomum*, preying on *Amrasca biguttula biguttula* 1112

- Cheiracanthium mildei**
effect of pesticides 1382
preying in *Spodoptera littoralis* 152
- Cheiracanthium mordax**, preying on cotton pests 602, 1643
- Cheirapachus quadrum**, parasitising *Leperisinus* spp. 682
- Cheletogenes ornatus**, preying on citrus scales 638
- Chelonus**
against *Pectinophora gossypiella*, in USA 591
parasitising
Mythimna unipuncta, interaction with *Neoplectana carpocapsae* 2073
Trichoplusia ni, effect on host development 2005
- Chelonus blackburni**
against
Corcyra cephalonica, in India 132
Earias vittella, in India 132
Pectinophora gossypiella, in USA 591
possible introduction to Pakistan 127
- Chelonus curvimaculatus**, parasitising *Phthorimaea operculella* 107
- Chelonus elaeaphilus**
parasitising
Ochromolopis staintoniella 1687
Prays citri 1687
Prays oleae 646, 1687
- Chelonus formosanus**, parasitising *Spodoptera exigua* 1958
- Chelonus inanitus**
parasitising *Spodoptera littoralis* 133, 592, 612
biology 898, 2003, 2004
- Chelonus insularis**
host discrimination 1483
parasitising
Heliothis virescens, competition from other parasites 462
Spodoptera frugiperda 1021
- Chenopodium album**
in German Federal Republic 792
infected by
Ascochyta caulina 792
Cercospora chenopodii 792
- Cherimoya**
Parasissettia nigra, parasites, in Peru 1681
- Chermes cimicoides**, preying on *Phytoseiulus persimilis* 1084
- Cherries**
Valsa spp., antagonists against, in German Federal Republic 631
- Chestnuts**
Curculio elephas, natural enemies, in Hungary 636
Dryocosmus kuriphilus, parasitised by *Torymus* spp., in Japan 686, 1210
Endothia parasitica, controlled by *Trichoderma viride*, in Italy 1739
- Cheyletus malaccensis**
biology 2029
preying on *Tribolium confusum* 716
- Chile**
Athene cunicularia, diet 1253
cereal aphids, *Aphidius* spp. against 1041
Epinotia aporema, pathogens 537
Ormiscodes rufosignata, parasites 451
- Oryctolagus cuniculus*, predators 1251, 1252
Rattus rattus, preyed on by *Bubo virginianus magellanicus* 1252
- Chilo auricilius**
in India 1017, 1030
parasite tests 1030
parasitised by *Sturmiopsis inferens* 1017
- Chilo infuscatellus**
Apanteles spp. against 4
in India 4, 1016, 1017, 1556
in Pakistan 510
in Thailand 1467
parasitised by
Sturmiopsis inferens 1016, 1017
Trichogramma chiloetraeae 1556
Tetrastichus israeli against 4
Trichogramma spp. against 4
- Chilo partellus**
in India 14, 1016, 1020, 1492, 1556
in Reunion 1996
integrated control 1020
parasitised by
Sturmiopsis inferens 1016
Trichogramma chiloetraeae 1556
preyed on by spiders 14
Trichogramma spp. against 1492
- Chilo sacchariphagus**
in Malaysia 5
integrated control, review 1538
Trichogramma spp. against 5
Trichogrammatoidea nana against 5
- Chilo sacchariphagus indicus**, infected by GV, in India 1543
- Chilocorus**, against *Unaspis yanonensis*, in Japan 1153
- Chilocorus bijugus**, introduction into USSR 432
- Chilocorus bipustulatus**
preying on
Ceroplastes floridensis 637
citrus coccids, effect of insecticides 1676
Saissetia oleae 1683
- Chilocorus bipustulatus iranensis**, introduction into Nigeria 432
- Chilocorus cacti**, preying on *Coccus viridis* 655
- Chilocorus nigrinus**, against *Aspidiotus destructor*, in New Hebrides 1187
- Chilochorus renipustulatus**, preying on *Cryptococcus fagisuga* 208
- China**
Adoxophyes privatana, infected by *Paecilomyces catenibliquus* 1442
Antheraea pernyi, parasitised by *Apanteles* sp., hyperparasites 247
Archips ingentanus, infected by *Paecilomyces cateniannulatus* 1442
Artogeia rapae, infected by viruses 1079, 1080, 1081
Buzira suppressaria, infected by *Bacillus thuringiensis*, in Guangxi 1181
citrus scales, infected by fungi 1680
Cnaphalocrocis medinalis
Bacillus thuringiensis against 1560
infected by GV, in Guangdong 1559
parasitised by *Chorinaeus fascialis* 894
- Coccus* spp., parasitised by *Coccophagus* spp., in Fujian 392
cotton aphids, preyed on by *Coccinella septempunctata* 139
cotton pests, integrated control, in Honan 603
damping-off disease, antagonists, in Yunnan 1240
Dendrolimus punctatus, biological control 216
Ectropis obliqua, infected by NPV, in Anhui 1697
forest insects, infected by viruses 666
Heliothis armigera, NPV against 1641
insect pests, preyed on by *Apus affinis subfurcatus*, in Yunnan 1519
integrated control 847
Lymantria xyliana
infected by NPV 191
natural enemies, in Fujian 1729
mosquitoes, infected by *Streptomyces culicidicus* 742
Myzus persicae, parasitised by *Aphidius gifuensis*, in Yunnan 1116
Orseolia oryzae, parasites, effect of insecticides, in Guangdong 18, 1563
Pectinophora gossypiella, parasitised by *Pristomerus vulnerator* 129
pest control, review 428
Spilonota lechriaspis, parasitised by *Lycorina spilonotae*, in Liaoning 1420
white grubs, *Bacillus popilliae* against 26
- Chionodes mediofuscella**, attacking *Ambrosia trifida* 815
- Chironomus**
infected by *Hydromermis* spp., in USSR 1436
preyed on by *Dugesia tigrina* 1787
- Chironomus anthracinus**, infected by *Tetrahymena* sp., in Canada 1292
- Chironomus attenuatus**, infected by *Microsporidium chironomi*, in USA 910
- Chironomus crassicaudatus**
infected by *Entomophthora culicis*, in USA 1293
susceptible to *Bacillus thuringiensis israelensis* 1811
- Chironomus decorus**
infected by
Entomophthora culicis, in USA 1293
Rickettsiella chironomi 1823
susceptible to *Bacillus thuringiensis israelensis* 1811
- Chironomus frommeri**, infected by *Rickettsiella chironomi* 1823
- Chironomus plumosus**, infected by *Tetrahymena chironomi*, in Canada 1292
- Chironomus salinarius**, infected by *Tetrahymena* sp., in Canada 1292
- Chlaenius**, preying on *Cnaphalocrocis medinalis* 19
- Chloropisca glabra**, preying on *Pemphigus fuscicornis* 92
- Chloropulvinaria polygonata**
parasitised by
Aphycus sp., in India 1172
Coccophagus spp., in China 392

- Chumetia transversa*
in India 1172
parasitised by
Bracon greeni 1172
Goryphus sp. 1172
Meteorus sp. 1172
- Chondrilla juncea*
biological control, cost-benefit analysis 427
Bradyrrhoa gilveolella against 821, 1860
Cystiphora schmidtii against 1860
in Argentina 1846
in Australia 39, 427, 786, 821, 1341, 1860, 1861, 1862, 1983
in Turkey 1861, 1862
in USA 788, 789, 1340
Phytoptus chondrillae against 1860
Puccinea chondrillina against 788, 789, 1340, 1341, 1860, 1861, 1862
- Chondrostereum purpureum*, controlled by *Trichoderma viride*, in UK 956
- Chorinaeus facialis*, parasitising *Cnaphalocrocis medinalis*, description 894
- Choristoneura conflictana*
in Canada 1737
parasitised by
Agathis annulipes 1737
Glypta inversa 1737
Macrocentrus iridescens 1737
- Choristoneura fumiferana*
Bacillus thuringiensis against 1194, 1228, 1229
dosing technique 1923
in Canada 924, 1194, 1228, 1230, 1231, 1923
in USA 1228, 1229
Nosema fumiferanae against 1231
parasitised by
Apanteles fumiferanae 1230
Ephialtes ontario 1230
Glypta fumiferanae 1230
Phaeogenes maculicornis hariohus 1230
Pleistophora schubergi against 1231, 1740
virus bioassay 870
- Choristoneura occidentalis*
in USA 1232, 1735, 1741
Neoplectana carpocapsae against 1735
parasite distribution 1741
parasitised by
Apanteles fumiferanae 1232
Glypta fumiferanae 1232
detection technique 1896
- Choristoneura rosaceana*, parasitised by *Oedemopsis scabricula*, in Canada 915
- Chortoicetes terminifera*, biological control, in Australia 39
- Chromaphis juglandicola*, biological control review 939
- Chromolaena odorata*
attacked by aphids, in India 1995
biological control, in Thailand 1467
- Chrysanthemum*
Agrobacterium tumefaciens, A. radiobacter against, in France 715
biological control, review 934
Macrosiphoniella oblonga, infected by *Conidiobolus osmodes*, in France 225
Phytomyza syngenesiae, parasites, in Sweden 1760
- Tetranychus urticae*, *Phytoseiulus persimilis* against, in UK 1242
- Chrysocharis*, parasitising *Liriomyza* spp. 1075
- Chrysocharis ainsliei*, parasitising *Phytomyza syngenesiae*, effect of insecticides 94
- Chrysocharis larinicellae*
against *Coleophora loricella*, in USA 1742, 1743
rearing methods 212
- Chrysocharis sunosei*, parasitising *Masakimya pustulae*, description 390
- Chrysolina hyperici*, against *Hypericum perforatum*, in Australia 1862
- Chrysolina quadrigemina*, against *Hypericum perforatum*, in Australia 1862
- Chrysolina vishnu*, preying on *Aphis kurosawai* 1962
- Chrysomphalus aonidum*
controlled by natural enemies 1182
in China 1680
in India 1182
infected by
Beauveria bassiana 1680
Fusarium coccophillum 1680
Podonectria coccicola 1680
Verticillium sp. 1680
preyed on by *Cardiastethus nazarens* 992
- Chrysonotomyia*
against *Coelaenomenodera elaeidis*, in Ivory Coast, 662
from North America, taxonomy 388
parasitising
Aspidiotus destructor 1172
Bucculatrix thurberiella 1644
Liriomyza spp. 1075
- Chrysopa*
preying on
apple pests 1140
effect of food sprays 158
Coccinella septempunctata 1966
cotton pests 603, 1106
Eotetranychus pruni 1629
Heliothis virescens 1642
Lipaphis erysimi 1596
Lymantria dispar 670
Pectinophora gossypiella 125
Phenacoccus manihoti 1069
Pristiphora erichsonii 707
Pseudococcus comstocki 1143
soyabean pests 75
- Chrysopa abbreviata*
feeding biology 2025
in USSR 1457
- Chrysopa ciliata*, in USSR 1457
- Chrysopa formosa*
against *Myzus persicae*, in Bulgaria 1117
artificial diet 1403
effect of pesticides 1380
in USSR 1457
preying on *Lysiphlebus fabarum* 1002
- Chrysopa irregularis*, taxonomic revision 372
- Chrysopa lanata lanata*
artificial diet 450
larval key 449
- Chrysopa oculata*
preying on
Hypera postica 1046
Myzus persicae
effect of insecticides 853
effect of weeds 1530
- Chrysopa perla*, artificial diet 1403
- Chrysopa phyllochroma*, preying on *Sitobion avenae* 32
- Chrysopa septempunctata*
against *Myzus persicae*, in Bulgaria 1117
artificial diet 1403
in USSR 1457
preying on olive pests 178
rearing technique 1412
- Chrysopa ventralis*, in USSR 1457
- Chrysoperla*
ecology 503
parasitised by *Chrysopophthorus hungaricus* 648
- Chrysoperla carnea*
artificial diet 360
attraction to bait traps 1690
dispersal flight 453
effect of
Bacillus thuringiensis 96
insecticides 136, 1107, 1372, 1676, 1891
in USSR 1457
parasitised by
Gelis iliculator 179
Isodromus puncticeps 179
Telenomus acrobates 599
Tetrastichus principiae 179
preying on
Acyrtosiphon spp. 2050
apple pests 626
citrus coccids 1676
clover pests 601, 1052
cotton pests 598, 599, 600, 1107
Eotetranychus pruni 1671
Heliothis spp. 130
olive pests 178, 179, 1164, 1689
Sitobion avenae 32
Trichogramma embryophagum 1003
rearing technique 1403, 1404, 1412
seasonal abundance 600
- Chrysoperla downesi*, seasonal cycles, in USA 454
- Chrysopidae*
from
Australia, revision 372
France 373, 648
parasites 648
- Chrysopophthorus hungaricus*, parasitising chrysopids 648
- Chrysops*
in USA 777
parasitised by
Telenomus spp. 777
Trichogramma spp. 777
pathogens, in USSR 765
- Chrysops relictus*, infected by *Tabanomyces milkoii*, in USSR 764
- Chunrococcus niveosparus*, parasitised by *Gonatocerus*, in Taiwan 651
- Cimex lectularius*, infected by *Bacillus thuringiensis*, in USSR 1968
- Cinara escherichi*, preyed on by coccinellids, in German Democratic Republic 1755
- Cinara pilicornis*
infected by *Entomophthora* sp., in UK 224
preyed on by coccinellids, in German Democratic Republic 1755
- Cinara pinea*, preyed on by coccinellids, in German Democratic Republic 1755
- Cinara stroyani*, preyed on by coccinellids, in German Democratic Republic 1755

- Cionella lubrica*, preyed on by *Nesovitreia hammonis*, in France 292
- Cirrospilus**
parasitising
Perileucopterus coffeella 656
Phylacteophaga froggatti 1217
- Cirsium**
attacked by *Ceutorhynchus trimaculatus*, in Europe 1322
controlled by goats, in New Zealand 551
- Cirsium arvense**
attacked by *Aphis barberae* 303
Ceutorhynchus litura against 1319, 1850
in Canada 303, 821, 924, 925, 926, 1319, 1850, 1971
in German Federal Republic 792
in USA 1319
in Yugoslavia 1324
infected by
Puccinia obtogens 1851
Puccinea punctiformis 792, 821, 1850
Puccinia suaveolens 1324
Urophora stylata against 1319
- Cirsium vulgare**, insects against, in Canada 925, 926, 1971
- Citellophilus tesquorum*, infected by *Aphanimeris tshumacovae* 1437
- Citheronia regalis*, attacking *Phoradendron flavescens* 838
- Citrus**
Aleurocanthus woglumi, parasites against, in USA 172, 173, 1677, 1678
Aleurothrixus floccosus, parasitised by *Aleurodiphris americanus* in Mexico 1931
- Aonidiella aurantii*
Aphytis melinus against, in USA 1149, 1150
biological control problem, in USA 167
natural enemies, in Australia 1147, 1148
parasitised by
Comperiella bifasciata, effect of insecticides 639
Debachiella citri, in Argentina 448
predatory mites, in Egypt 638
- Archips rosanus*, controlled by *Bacillus thuringiensis*, in Italy 1158
biological pest control, in Peru 1986
- Calocoris trivialis*, controlled by egg parasites, in Italy 972
- Ceroplastes destructor*, controlled by *Anicetus communis*, in Australia 1151
- Ceroplastes floridensis*, mortality factors, in Israel 637
- coccids, natural enemies, in France 1676
- Coccus pseudomagnoliarum*, biological control problem, in USA 167
- Coccus viridis*, predators, in New Caledonia 2021
- Coccus* spp., parasitised by *Coccophagus* spp., in China 392
- Dialeurodes citri*
controlled by *Encarsia lahorensis*, in USA 1154
- Encarsia lahorensis* against, in Italy 168
predators, in Turkey 1679
- Diaphorina citri*
parasitised by *Psyllaphagus diaphorinae*, in Taiwan 387
Tetrastichus spp. against, in Reunion 643
- integrated pest control
in Europe 338
in USA 1366
- Lepidosaphes beckii*
Aphytis lepidosaphes against, in Spain 171
parasites, in New Caledonia 1675
- predatory mites, in Egypt 638
- mites, natural enemies, in Italy 176
- nematodes, natural enemies, in USA 177
- Papilio demoleus*, mortality factors, in Saudi Arabia 641
- Papilio thoas rhoantides*, parasitised by *Lespesia protoginoides*, in Argentina 1157
- Papilio xuthus*, *Pteromalus puparum* against, in Japan 642
- Parabemisia myricae*, parasites against, in USA 1155
- Parlatoria pergandii*, parasites, in Spain 171
- Pinnaspis aspidistrae*, parasites, in India 640
- Planococcus citri*
Cryptolaemus montrouzieri against 169, 170
Leptomastix dactylopii against in Cyprus 1673
in Italy 168
- Prays citri*, *Bacillus thuringiensis* against, in Italy 170
- Saissetia oleae*
Metaphycus bartletti against, in Italy 181
Metaphycus helvolus against, in Spain 171
parasites, in Italy 1682, 1683
- scale insects, infected by fungi, in China 1680
- spider predators, in USA 644
- Tetranychus urticae*, preyed on by *Scolothrips sexmaculatus*, effect of insecticides 1159
- Toxoptera aurantii*
parasitised by *Lysiphlebus* spp. 174
preyed on by *Forficula auricularia*, in USSR 1699
- Toxoptera citricida*, biological control, in South Africa 175
- Trioza erytrae*
natural enemies, in South Africa 917, 1156
Tetrastichus spp. against, in Reunion 643
- Unaspis citri*, parasitised by *Aphytis* sp., in Argentina 1152
- Unaspis yanonensis*, integrated control, in Japan 1153
- whiteflies, natural enemies, in USA 173
- Cladotanytarsus*, infected by *Tetrachymena* sp., in Canada 1292
- Cladobotryum amazonense*, inhibiting *Crinipellis perniciosa* 1696
- Cladosporium spongiosum*, inhibiting *Phyllactinia dalbergiae* 693
- Cladosporium uredinicola*, inhibiting *Puccinia melanocephala* 1548
- Clausicella suturata*, parasitising *Agrotis segetum* 598
- Clemelis pullata*, parasitising *Loxostege sticticalis* 544
- Cleobora mellyi*
against *Paropsis charybdis*, in New Zealand 1218
preying on *Paropsis charybdis*, in Australia 691
- Cleora cinctaria*, parasitised by *Poecilostictus cothurnatus*, in Netherlands 1747
- Cleridae**, from USA 423
- Clethrionomys glareolus**
blood parasites, in UK 245
infected by helminths, in Norway 1779
- Clinocentrus gracilipes*, effect of venom on host 967
- Clinodiplosis oleisuga*, natural enemies, in Italy 1688
- Clitostethus arcuatus*, preying on *Dialeurodes citri* 1679
- Clvinia fossor*, preying on *Diabrotica longicornis* 15
- Closterocerus cinctipennis**
controlling *Neodiprion pinetum*, in USA 705
parasitising *Bucculatrix thurberiella* 1644
- Closterocerus coffeellae**, parasitising *Perileucopterus coffeella* 656
- Clostridium**
infecting *Ostrinia nubilalis* 516
inhibiting *Pestriophora sacra* 620
- Clover**
Anticarsia gemmatilis, parasitised by *Trichogramma* sp., in USA 1574
- Aphis gossypii*, predators, in Egypt 1052
- Apion* spp., parasitised by *Triaspis* spp., in Romania 59
- Autographa biloba*, natural enemies, in USA 1574
- Cydia interstinctana*, natural enemies, trapping techniques 356
- Hypera brunneipennis*, predators, in Egypt 1052
- Hypera nigrostris*, parasitised by *Diaparsis hyperae*, in Japan 377
- insect predators, in Iraq 601
- natural enemy fauna, in Egypt 541
- Rachiplusia ou*, natural enemies, in USA 1574
- Sitona* spp., parasitised by *Pygostolus falcatus*, in Romania 59
- Thrips tabaci*, predators, in Egypt 1052
- Cnaphalocrocis medinalis**
Bacillus thuringiensis against 1560
in China 894, 1559, 1560
in India 20
in Japan 527
in Philippines 19
in Thailand 1467
infected by GV 1559
parasitised by
Apanteles sp. 527
Brachymeria excarinata 527
Chorinaeus falcialis 894
Itopectis naranyae 527
Trathala flavoorbitalis 527
Trichogramma sp. 20, 527
preyed on by ants 19

- Cnephia*, *Bacillus thuringiensis israelensis* against, in Canada 757
- Cnephia pacheco-lunai*, infected by *Isoimeris vulvachila*, in Guatemala 1435
- Coccidohystrix insolita*, parasitised by *Tetrastichus* spp., in India 1939
- Coccinella californica*
preying on
Acyrtosiphon pisum 2048, 2049, 2052, 2054
Metopolophium dirhodum 2054
- Coccinella quinquepunctata*, preying on aphids, community groups 2060
- Coccinella repanda*
effect of insecticides 44
preying on
Acyrtosiphon kondoi 1573
Aphis craccivora 1064
Pentalonia nigronervosa 1650
Therioaphis trifolii 1573
- Coccinella septempunctata*
against
Aphis gossypii, in China 603
beet pests, in USSR 432
Monellia spp., in USA 635
artificial diet 360
community groups 2060
development, effect of temperature 2020
distribution, in USA 920
effect of
aphid density on settling 477
Bacillus thuringiensis 96
diet 478
pesticides 564, 1372, 1378, 1472
fecundity 1498
migration 139
parasitised by
Homalotylus flaminus 1966
Perilitus coccinellae 1966
Phalacrotophora fasciata 1966
Tetrastichus coccinellae 1966
preyed on by
Anthocoris nemorum 1966
Araneus marmoreus 1966
Arma custos 1966
Chrysopa sp. 1966
Medina lactuosa 1966
Xysticus sp. 1966
preying on
aphids 1975, 2060
Aphis gossypii 103
Aphis sp. 1456
apple pests 626
Brachycaudus helichrysi 567
clover pests 601
cotton aphids 598
Lipaphis erysimi 564
maize pests 1045
Sitobion avenae 32
- Coccinella transversoguttata*
artificial diet 360
development, effect of temperature 2020
preying on
Hypera postica 1046
Myzus persicae, food plant preference 1599
- Coccinella trifasciata*
preying on
Acyrtosiphon pisum 2048, 2049, 2051, 2054
Metopolophium dirhodum 2054
- Coccinella undecimpunctata*
effect of insecticides 850
preying on
Acyrtosiphon kondoi 52, 54, 850
Acyrtosiphon pisum 850, 2054
aphids, community groups 2060
clover pests 1052
cotton pests, seasonal abundance 600
Metopolophium dirhodum 2054
- Coccinellidae
essential and alternative foods, in UK 1525
from Korea 422
- Coccodiplosis citri*, preying on *Phenacoccus manihoti* 87, 88
- Coccophagus*
parasitising
Aphis gossypii 561
citrus coccids, effect of insecticides 1676
Parthenolecanium spp. 1763
- Coccophagus brevisetus*, parasitising *Coccus* spp., description 392
- Coccophagus caridei*, parasitising *Parasaissetia nigra* 1681
- Coccophagus cowperi*
against *Pulvinaria* spp., in USA 1764
parasitising
Coccus viridis, effect of insecticide 1995
Saissetia coffeae 1733
Saissetia miranda 1733
- Coccophagus crenatus*, parasitising *Chloropulvinaria polygonata*, description 392
- Coccophagus gurneyi*, against citrus pests, in USSR 1974
- Coccophagus lycimnia*
hyperparasitising *Sphaerolecanium prunastri* 1142
parasitising
Parthenolecanium corni 1763
Saissetia oleae 1682, 1683
yew scale 709
- Coccophagus matsuyamensis*, parasitising *Coccus hesperidum* 382
- Coccophagus pallidis*
description 392
parasitising
Chloropulvinaria polygonata 392
Coccus sp. 392
Saissetia sp. 392
- Coccophagus scutellaris*, parasitising *Coccus hesperidum*, oviposition 1485
- Coccus*, parasitised by *Coccophagus* spp., in China 392
- Coccus hesperidum*
hyperparasites, in Israel 965, 968
parasitised by
Aneristus ceroplastae, in India 1178
Coccophagus matsuyamensis, in Italy 382
Coccophagus scutellaris, effect on oviposition 1485
Metaphycus spp., encapsulation 465
- Coccus pseudomagnoliarum*, biological control problem, in USA 167
- Coccus viridis*
in Cuba 655, 1695
in India 1733, 1995
in New Caledonia 2021
infected by
Fusarium sp. 1695
Verticillium lecanii 655
parasitised by
chalcids 655
Coccophagus cowperi 1995
Microterys flavus 1733
preyed on by
Chilocorus cacti 655
Coelophora spp. 2021
Cryptolaemus montrouzieri 2021
- Cocoa
Crinipellis perniciosus, inhibited by *Cladobotryum amazonense*, in Brazil 1696
Pantorhytes biplagiatus, preyed on by *Oecophylla smaragdina*, in Solomon Islands 659
- Coconut
Amblypelta cocophaga, preyed on by *Oecophylla smaragdina*, in Solomon Islands 659
- Aspidiotus destructor*, coccinellid predators against, in New Hebrides 1187
- Automerus janus*, parasitised by *Belvosia formosa*, in Trinidad 1188
- Balyana* sp., parasitised by *Oligosita* spp., in Madagascar 399
- Bontispa longissima*, biological control, in Solomon Is. 1702
- Coelaenomenodera perrieri*, parasitised by *Oligosita* spp., in Madagascar 399
- Eriophyes guerreronis*, infected by *Hirsutella thompsonii* 1703
- Graeffea crouanii*
Paranastatus spp. against
in Western Samoa 187
in Tokelau Is. 1701
- Opsina avenosella*, parasites, in India 1185, 1186, 1995
- Oryctes rhinoceros*
controlled by *Baculovirus oryctes*, in South Pacific 1700, 1701
infected by *Acinetobacter calcoaceticus*, in India 1184
integrated control, in Western Samoa 186
Platymeris laevis against, in India 1995
- Scapanes australis*, *Baculovirus* sp. against
in Solomon Islands 955
- Cocoseius elsalvador*, from El Salvador, description 1461
- Cocoyam
Aphis gossypii, parasites, in India 561
Phytolithora colocasiae, antagonists, in India 1592
- Coelaenomenodera elaeidis*, *Chrysotomomyia* sp. against, in Ivory Coast 662
- Coelaenomenodera perrieri*, parasitised by *Oligosita minuta*, in Madagascar 399
- Coeloides pissodis*
parasitising bark beetles 694, 1750
response to odours 1201
- Coeloides vancouverensis*, parasitising *Dendroctonus pseudotsugae* 697
- Coelomomyces*
infecting
Culex spp. 1277
medical arthropods, bibliography 282
- Coelomomyces africanus*, infecting *Anopheles* spp. 1277

- Peleteria robusta* 1621
Prosopochaeta setosa 1621
Winthemia sp. 1621
- Copris**
Copris lunaris, biology 1843
Copris siangensis, description 298
Copromyza marginatis, infected by *Howardula marginatis*, in India 1831
- Coptera**, parasitising *Rhagoletis* spp., descriptions 393
- Coptosylla lamellifer**, infected by nematodes, in USSR 769
- Corcyra**, parasitised by *Bracon* spp., in Saudi Arabia 1769
- Corcyra cephalonica**
Chelonus blackburni against, in India 132
 parasitised by *Bracon hebetor* 959
 rearing host for *Trichogramma perkinsi* 362, 363
- Cordia curassavica**, biological control, in Malaysia 307, 807, 821
- Cordyceps**, infecting arthropods, review 1719
- Cordyceps aphodii**
 infecting
Aphodius spp. 49
Hypharpax sp. 49
- Cordyceps unilateralis**
 infecting
Atta cephalotes 610
Camponotus sp. 610
- Corecoris lativentris**, parasitised by *Gryon gallardoi*, in Argentina 1651
- Coreus marginatus**, parasitised by *Gryon bosellii*, in Italy 396
- Cornops aquaticum**, attacking *Eichhornia crassipes* 1874
- Corticeus glaber**, preying on *Dendroctonus frontalis* 1751
- Corticeus parallelus**, preying on *Dendroctonus frontalis* 1751
- Corvus frugilegus**, preying on *Costelytra zealandica* 69
- Corythucha ciliata**, infected by *Beauveria bassiana*, in Italy 1738
- Cosmopolites sordidus**, infected by *Beauveria bassiana*, in Brazil 1170
- Costa Rica**
 coffee fruit flies, parasites 1693
Diabrotica spp., preyed on by ants 1125
Simulium spp., infected by *Neomesa mermis travisi* 408
- Costelytra zealandica**
 in New Zealand 40, 50, 69, 546, 552
 infected by
Bacillus sp. 40
Mattesia sp. 40
Nosema spp. 40
 nematodes against 546, 552
 preyed on by *Corvus frugilegus* 69
- Cotton**
Alcidodes affaber, parasitised by *Goryphus* sp., in India 137
Anthonomus grandis
 infected by nematodes, in USA 134
 natural enemies, in Colombia 1104, 1105, 1106
Anthonomus grandis grandis, parasites, in USA 1632
 aphids, preyed on by *Chrysoperla carnea*, in USSR 598, 599
 arthropod fauna
 in Peru 1646
 sampling technique 354
- Bacillus thuringiensis**,
 persistence on leaves 1109
 biological pest control
 in Peru 1986
 in USSR 1637
Bucculatrix thurberiella, natural enemies, in Peru 1644
Chrysoperla carnea, effect of insecticides, in Turkey 1107
Corcyra cephalonica, *Chelonus blackburni* against, in India 132
Dysdercus koenigii, preyed on by *Hemipteroseius indicus*, in India 138
Earias vittella, *Chelonus blackburni* against, in India 132
 entomophagous insects, in USSR 598
Fusarium oxysporum vasinfectum, inhibited by *Trichoderma viride*, in USSR 1115
- Heliothis armigera**
Bacillus thuringiensis against, in USSR 596, 1981
 efficiency of pathogens 1110
 egg parasites, in South Africa 1639
 integrated control
 in Australia 1108
 in USSR 595
 NPV against, in China 1641
 parasitised by *Trichogramma meyeri*, in USSR 402
- Heliothis** spp.
 natural enemies, in Colombia 594
 predators
 in Australia 1643
 in USA 130, 1642
 integrated pest control, in China 603
 mite pests, predators, in Egypt 604
- Pectinophora gossypiella**
 integrated control
 in India 1635
 in USA 125, 126, 591
 natural enemies, in Pakistan 127, 128
 preyed on by *Pyemotes ventricosus*, in India 1634
- pests and predators, seasonal abundance, in Egypt 600
 predacious arthropods
 in Iraq 601
 in USA 145
- Rhizoctonia solani*, controlled by *Aphelenchus avenae* 1127
 spider predators, in Australia 602, 1643
- Spodoptera littoralis**
Bacillus thuringiensis against, in Egypt 1111
 parasites, in Egypt 133, 592
Sylepta derogata, parasites, in India 597
Trichoplusia ni, natural enemies, in Brazil 1638
Verticillium dahliae, *Trichoderma viride* against, in USSR 140, 1115
- Cottonwood**
Brochymena spp., parasitised by *Trichopoda plumipes*, in USA 1734
- Cowpea**
Aphis craccivora, predators, in India 1064
Cydia pychora, parasites, in India 86
Heliothis armigera, parasitised by *Trichogramma* spp., in India 1585
Cremastus, parasitising *Scrobipalpula absoluta* 1618
Crematogaster, preying on *Batrachedra amydraula* 1706
Crematogaster wroughtonii, preying on *Helopeltis antonii* 1692
Crinipellis perniciosa, inhibited by *Cladobotryum amazonense*, in Brazil 1696
- Crocidolomia binotalis**
Bacillus thuringiensis against 100, 1597
 in India 90, 1597
 in Malaysia 100
 parasitised by
Apanteles spp. 90
Cantheconidea furcellata 90
Enicospilus xanthocephalus 90
Palxorista solennis 90
- Cronartium ribicola**, controlled by *Tuberculina maxima*, in USA 1239, 1756
- Crossidius pulchellus**, attacking *Gutierrezia* spp. 1869
- Cryptaphelenchus ligniperdae**, infecting bark beetles 197
- Cryptaphelenchus ryjickovi**, infecting bark beetles 197
- Cryptaphelenchus vorontzovi**, infecting bark beetles 197
- Cryptoblabes gnidiella**, biological control, in Israel 1168
- Cryptochironomus scimitarus**, infected by *Tetrahymena* sp., in Canada 1292
- Cryptococcus fagisuga**
 in France 208
 preyed on by
Exochomus quadripustulatus 208
Lestodiplosus sp. 208
- Cryptolaemus**, against mealybugs, in USA 1243
- Cryptolaemus montrouzieri**
 against
 mealybugs
 in India 1473
 in UK 1244
 in USSR 709
Planococcus citri 169, 170
 biology 1995
 effect of pesticides 343, 852
 preying on
Aphis gossypii 1758
Coccus viridis 2021
- Cryptomyzus ribis**, preyed on by *Aphidoletes aphidimyza*, in USSR 590
- Ctenichneumon panzeri**, parasitising *Heliothis armigera* 1957
- Ctenopharyngodon idella**
 against
 aquatic weeds 821, 822, 832, 833, 835
Egeria densa 324
Eleocharis sphacelata 324
Hydrilla verticillata 328, 1880, 1881

- Lyngbya* sp. 325
mosquitoes 1784
Myriophyllum spicatum 328
Nitella hookeri 324
Phragmites australis 1351, 1352
Potamogeton ochreatus 324
Typha spp. 1351
bibliography 930
controlling *Batrachium rionii* 1350
hybridised with *Aristichthys nobilis* 821, 833, 1353
in Israel 835
in Hungary 329
in Netherlands 821
in New Zealand 324
in UK 832
in USA 325, 326, 327, 328, 821, 822, 833, 1880, 1881
in USSR 329, 330, 331, 1350, 1351, 1352, 1784
problems in use 1349
Ctenophthalmus teres, infected by nematodes, in USSR 769
Ctenoplia albobatrata
attacking *Solidago altissima*, effect of temperature 456
parasitised by *Euplectrus kuwanae* 966
Ctenopseustis obliquana
controlled by parasites 1197
in New Zealand 375, 1197
parasitised by *Aphanistes kayi* 375
Cuba
Apate monachus, parasites 1713
Aphidiidae 379
Coccus viridis, natural enemies 655, 1695
Heliothis virescens, parasitised by *Diadegma* sp. 469, 1647
Lissorhoptrus brevirostris, fungi against 529
Sogatodes orizicola, natural enemies 23
Cucumbers
Aphis gossypii, predators against, in USSR 102, 103, 104
biological pest control, review 934
Liriomyza bryoniae, parasites, in Sweden 1760
Meloidogyne incognita, *Arthrobotrys oligospora* against, in USSR 1089
Sphaerotheca fuliginea, inhibited by *Ampelomyces quisqualis*, in Norway 577
Tetranychus urticae
Phytoseiulus persimilis against
in USA 1612
in USSR 104
introduction technique 576
Trialeurodes vaporariorum
Anthocoris nemorum against, in Sweden 1086
Aschersonia spp. against
in Bulgaria 1088
in USSR 105
Verticillium lecanii against, in Sweden 1087
Cucurbita texana, infected by *Fusarium solani cucurbitae*, in USA 1346
Culex
Gambusia affinis against, in Australia 1263
infected by *Coelomomyces iliensis*, in USSR 1799
Culex annulirostris
Bacillus spp. against, in USA 1285
insect predators, in Australia 732
Culex argenteopuncatus kingii, infected by *Coelomomyces* sp., in Angola 1277
Culex australicus
Culicinomyces sp. against 1801
in Australia 732, 1801
insect predators 732
Culex guiarri, infected by *Coelomomyces* sp., in Angola 1277
Culex modestus
in USSR 729, 1800
infected by *Coelomomyces iliensis culicis* 1800
predatory fish against 729
Culex molestus
Entomophthora conglomerata against 1795
infected by *Romanomermis culicivora* 735
Culex mollis,
susceptibility to *Bacillus thuringiensis israelensis* 1282
Culex nigripalpus, controlled by *Bacillus sphaericus*, in USA 1287
Culex peus, *Bacillus thuringiensis israelensis* against 263
Culex pipiens
Bacillus thuringiensis israelensis against 265
in Czechoslovakia 1796
in USA 258, 268
in USSR 249, 1289, 1800
infected by
Amoebidium sp. 258
Arthromitus sp. 258
Coelomomyces iliensis culicis 1800
Entomophthora destruens 255, 1796
Romanomermis culicivora 736, 1275, 1789
Smittium spp. 258
inhibited by *Anabaena variabilis* 1289
preyed on by
Dugesia tigrina 1787
Gambusia sp. 249
Culex pipiens pallens, susceptibility to *Bacillus thuringiensis* varieties 744
Culex pipiens pipiens
infected by *Ascocystis culicis*, in USSR 254
susceptibility to
Bacillus sphaericus 750
Bacillus thuringiensis serotypes 1279
Entomophthora conglomerata 1795
Culex poicilipes, infected by mermithids, in Angola 1277
Culex quinquefasciatus
Bacillus sphaericus against 1467
Bacillus thuringiensis israelensis against 1467
Culicinomyces sp. against 1801
in Australia 1801
in India 260, 726, 1267, 1278, 1797
in Indonesia 1283
in Nigeria 1804
in Thailand 1467, 1805
in USA 734, 1285, 1287
infected by
Amblyospora spp. 1804
Helicospiridium sp. 1805
preyed on by
Dugesia dorotocephala, effect of diflubenzuron 1893
Gambusia affinis 726, 1267
Herpobdelloidea sp. 1272
Macropodus cupanus 250
Notonecta hoffmanni, interference model 2066
Poecilia reticulata 726
Romanomermis culicivora against 734
susceptibility to
Bacillus sphaericus 260, 751, 869, 1285, 1287, 1812, 1814
Bacillus thuringiensis 1278
Bacillus thuringiensis israelensis 263, 747, 1282, 1283, 1285, 1811, 1812, 1814
Metarhizium anisopliae 1797, 1798
Vavraia culicis 740
Culex restuans
Bacillus spp. against 1284
in USA 258, 1284, 1786
infected by
Amoebidium sp. 258
Arthromitus sp. 258
preyed on by
Agelenopsis naevia 1786
Dugesia tigrina 1787
Culex salinarius
susceptibility to
Bacillus sphaericus 750
Vavraia culicis 740
Culex simpsoni, infected by mermithids, in Angola 1277
Culex tarsalis
Bacillus sphaericus against 267
Bacillus thuringiensis israelensis against 263, 266, 267, 1812
impact of *Tilapia zillii* on breeding sites 332
in USA 253, 258, 263, 266, 267, 272, 332, 1812
infected by
Amblyospora californica 1803
Amoebidium sp. 258
Arthromitus sp. 258
Smittium spp. 258
preyed on by *Gambusia affinis* 272
Romanomermis culicivora against 253
susceptibility to *Vavraia culicis* 740
Culex tritaeniorhynchus, infected by *Bacillus thuringiensis*, in India 1278
Culex vishnui, infected by *Coelomomyces omorii*, in Taiwan 257
Culicimermis culicivora, infecting *Aedes communis*, description 1434
Culicinomyces
cold storage 1413
infecting
Anopheles annulipes 1801
Culex australicus 1801
Culex quinquefasciatus 1801
vertebrate safety 1802
Culicispora damnosi, infecting *Simulium damnosum* 1817
Culicoides
infected by *Bacillus thuringiensis israelensis* 1288
preyed on by
Elaphrus cupreus, in France 753

- Culiseta incidens*, *Romanomermis culicivora* against, in USA 734
- Culicita inornata***
Bacillus thuringiensis israelensis against 263
 in USA 258, 263
 infected by
Amoebidium sp. 258
Arthromitus sp. 258
Smittium spp. 258
- Cunaxa***, preying on cotton mites 604
- Curculio caryae***
 infected by
Beauveria bassiana 1388, 1672
Metarhizium anisopliae 1388
 preyed on by *Solenopsis invicta*, in USA 1146
- Curculio elephas***
 in Hungary 636
 infected by
Caenorhabditis dolichura 636
Penicillium sp. 636
Scopularcopsis brevicaulis 636
Trichoderma sp. 636
 parasitised by *Rhizoglyphus echinopus* 636
- Curvularia lunata***, infecting *Echinochloa crus-galli* 792
- Cuscuta campestris***, infected by *Fusarium oxysporum* 1364
- Cuscuta lupuliformis***, attacked by *Smicronyx scops*, in USSR 337
- Cuscuta trifolii***
 in Yugoslavia 1364
 infected by
Alternaria spp. 1364
Fusarium spp. 1364
- Cybocephalus***, preying on *Rastrococcus iceryoides* 1172
- Cyclamen***
Otiorynchus sulcatus
Heterorhabditis heliothidis against, in Australia 1098
Heterorhabditis sp. against, in Netherlands 1097
- Cyclas***, fungi against, in Solomon Islands 955
- Cycloneda polita***
 preying on
Acyrtosiphon pisum 2054
Metopolophium dirhodum 2054
- Cycloneda sanguinea***, preying on cotton pests 1106
- Cyclosa insulana***, preying on *Chilo partellus* 14
- Cydia inopinata***, parasitised by
Trichogramma sibiricum, in USSR 402
- Cydia interstinctana***, natural enemies, trapping techniques 356
- Cydia molesta***
 natural enemies against, in USSR 1974
 parasitised by *Trichogramma ivelae*, in Australia 1091
- Cydia nigricana***, susceptible to *C.pomonella* GV 1515
- Cydia pomonella***
Bacillus thuringiensis against 1660
 GV against 1131
 GV production, quality control 871
 in Australia 1091, 1983
 in Bulgaria 1660
 in Canada 1131
 in France 148
 in New Zealand 149, 2034, 2035
 in Poland 1130
 in UK 1658
 in USSR 150, 1659
 infected by
Beauveria bassiana 1130
 GV 150
Nosema carpocapsae 149, 2034, 2035
 NPV, bioassay technique 1915
 integrated control, in Europe 147, 164, 338
 parasitised by
Ascogaster quadridentata 1130, 1482
Pristomerus vulnerator 1130
Trichogramma ivelae 1091
 preyed on by *Parus* spp., effect on sex ratio 1658
Trichogramma spp. against 148, 1659, 1660
- Cydia ptychora***
 in India 86
 parasitised by
Diadegma sp. 86
Phanerotoma hendecasisella 86
Trichogramma sp. 86
- Cyperus esculentus***
 attacked by *Bactra verutana* 1325, 1326
 in USA 1325, 1326, 1471
 infected by rust fungus 1471
- Cyperus rotundus***
 attacked by
Bactra verutana, in USA 1325, 1326
Sanctanus fasciatus, in Jamaica 311
- Cyprinus carpio***, preying on snails 835
- Cyprus**
Acyrtosiphon pisum, parasites 539
Planococcus citri, *Leptomastix dactylopii* against 1673
Spodoptera littoralis, parasites 612
- Cyrtobagous singularis***, against *Salvinia molesta*, in Australia 1361, 1872
- Cyrtoplyx***, parasitising *Hypolixus nubilosus* 805
- Cyrtorhinus***
 preying on *Nilaparvata lugens*, effect of insecticides 955
- Cyrtorhinus lividipennis***, preying on *Nilaparvata lugens* 1029
- Cystiphora schmidtii***, attacking *Chondrilla juncea* 1860
- Cytisus scoparius***
Apion fuscirostre against 305
 in USA 305
Leucoptera spartifoliella against 305
- Cyzenis albicans***, parasitising *Operophtera brumata*, density-dependent model 2061
- Czechoslovakia**
 aphids, coccinellid predators, community groups 2060
 integrated pest control, using *Trichogramma* spp. 340
 mosquitoes, infected by
Entomophaga destruens 1796
Neodiprion sertifer, *Birdiavirus diprionis* against 1753
Operophtera brumata, bird predators 1206
 spruce aphids, syrphid predators 1227
Tortrix viridana, bird predators 1206
Trialeurodes vaporariorum, *Encarsia formosa* against 1616
- Dacnusa sibirica***, against *Liriomyza bryoniae*, rearing technique 444
- Dactylaria brochopaga***, preying on nematodes 1842
- Dactylaria candida***, preying on nematodes 1842
- Dactylella oviparasitica***, controlling *Meloidogyne* sp., in USA 165
- Dactylopius austrinus***, against *Opuntia aurantiaca*, in Australia 821
- Dacus dorsalis***, predator rearing 1401
- Dacus oleae***
 controlled by *Opius concolor* 1165
 in France 178
 in Greece 180, 1166, 1690
 in Italy 1165, 1167, 1688
 integrated control 1167, 1688
 parasitised by
Eupelmus urozonus 1166
Pnigalio mediterraneus 1166
 preyed on by
Anisochrysa spp. 178, 180
 birds 1166
Chrysopa septempunctata 178
Chrysoperla carnea 178
Suaris nanus 180
- Dahlbominus fuscipennis***, parasitising *Diprion pini* 1223
- Dalbulus maidis***, parasitised by *Agonotopus* sp., in El Salvador 12
- Dasineura***, attacking *Acroptilon repens* 790
- Dasysyrphus albostrigatus***, parasites 459
- Date Palms**
Batrachedra amydraula, preyed on by *Crematogaster* sp., in Yemen 1706
- Ectomyelois ceratoniae***, *Phanerotoma flavitestacea* against, in Morocco 1707
- Ephestia cautella***, *Phanerotoma flavitestacea* against, in Morocco 1707
- Fusarium oxysporum albedinis***, antagonists, in Algeria 661
- Parlatoria blanchardi***, biological control, in Mauritania 1992
- Pseudophilus testaceus***, infected by *Beauveria bassiana*, in Iraq 660
- Datura stramonium***, attacked by *Lema trivittata*, in USA 808
- Debachiella citri***, parasitising *Aonidiella citri*, description 448
- Deladenus siricidicola***
 against *Sirex noctilio*, in Australia 1754
 infecting *Sirex noctilio*, free-living form 1196
- Delia antiqua***, parasitised by *Aphaereta pallipes*, interaction model 2068
- Delia brassicae***, integrated control, in UK 1610
- Delia coarctata***
 in USSR 25
 preyed on by
Aleochara sp. 25
Bembidion spp. 25
- Delia radicum***
 in Canada 575
 in Denmark 1082
 parasitised by
Aleochara bilineata 575, 1082
Trybliographa rapae 1082
 preyed on by *Bembidion lampros* 575

- Delphastus pusillus*
preying on
Aleurothrix floccosus 173
Paraleyrodes citri 173
- Delta dimidiatipennis*, parasitising
Heliothis virescens 61
- Dendrobacillin*
against
Erranis defoliaria 1730
Euproctis chrysorrhoea 1721
Heliothis armigera 596
Hyphantria cunea 1721
Hypoderma bovis 1832
Lymantria dispar 194, 673
Malacosoma neustria 676
Operophtera brumata 1730
Tortrix viridana 709, 1730
in USSR 194, 596, 673, 676, 709,
1721, 1730, 1832
- Dendrocerus*, from UK, taxonomic
revision 403
- Dendrocerus aphidum*
parasitising
Aphidius eadyi 2016
fruit aphids 1103
- Dendrocerus carpenteri*
hyperparasitising cereal aphids
31, 32
parasitising
Aphidius eadyi 2016
fruit aphids 1103
- Dendrocerus ergensis*, parasitising
Coniopteryx esbenpeterseni 632
- Dendrocerus flavipes*, parasitising
Coniopteryx esbenpeterseni 632
- Dendrocerus laticeps*, parasitising
fruit aphids 1103
- Dendroctonus brevicornis*
in USA 698
preyed on by *Temnochila chlorodia*,
attractants 698
- Dendroctonus frontalis*
attraction of natural enemies 696
in USA 219, 220, 694, 695, 696,
866, 1220, 1221, 1750, 1751
infected by *Contortylenchus brevicornis*
695
parasite identification 694
parasitised by
Coeloides pissodis 694, 1750
Dendrosoter sulcatus 694, 1750
Dinotiscus dendroctoni 694,
1750
Eurytoma spp. 1750
Heydenia unica 694, 1750
Rhopalicus sp. 1750
Roptrocerus eccoptogastri 1221
Roptrocerus xylophagorum 694
1750
Spathius pallidus 694, 1750
preyed on by
Corticus spp. 1751
Thanasimus dubius 219, 481,
1220
susceptibility to
Beauveria bassiana 220
Metarhizium anisopliae 220
Paecilomyces viridis 220
- Dendroctonus ponderosae*, susceptible
to *Neoplectana carpocapsae* 1914
- Dendroctonus pseudotsugae*
in Mexico 697
in USA 697
parasitised by *Coeloides vancouverensis*
697
- preyed on by
Enoclerus sphegeus 697
Medetera spp. 697
- Dendroica palmarum palmarum*,
preying on *Trichoplusia ni* 1607
- Dendrolimus*, integrated control, in
China 847
- Dendrolimus punctatus*
Bacillus thuringiensis against 216
Beauveria bassiana against 216
in China 216
infected by viruses 216
parasitised by *Trichogramma*
dendrolimi 216
preyed on by *Polyrhachis dives*
216
- Dendrolimus sibiricus*, infected by
Gibberella fujikuroi, in USSR 1443
- Dendrolimus spectabilis*
infected by viruses, in China 666
preyed on by *Formica yessensis*,
in Korea 215
- Dendrosoter protuberans*, parasitising
Scolytus multistriatus 1520
- Dendrosoter sulcatus*
parasitising *Dendroctonus frontalis*
694, 1750
response to odours 1201
- Denmark**
aquatic weeds, attacked by
waterfowl 831
Delia radicum, parasites 1082
- Deraeocoris*, preying on *Pristiphora*
erichsonii 707
- Deraeocoris lutescens*, preying on
Panonychus ulmi 1665
- Deraeocoris nebulosus*, preying on
apple pests 1140
- Deraeocoris pallens*, preying on
Dialeurodes citri 1679
- Deraeocoris serenus*, preying on
Panonychus ulmi 1665
- Dermacentor marginatus*, infected by
Bacillus thuringiensis, in USSR 1968
- Dermanyssus gallinae*, infected by
Bacillus thuringiensis, in USSR 1968
- Dermatophagoides farinae*, preyed on by
Acaropsellina spp. 717, 718
- Desantisca*, parasitising *Latrodectus*
mactans 775
- DeVine**, controlling *Morrenia odorata*,
in USA 1342
- Diabrotica adelpha*
in Costa Rica 1125
preyed on by
Pheidole sp. 1125
Solenopsis geminata 1125
- Diabrotica balteata*
in Costa Rica 1125
preyed on by
Pheidole sp. 1125
Solenopsis geminata 1125
- Diabrotica longicornis*, preyed on by
carabids, in Canada 15
- Diacamma*, preying on *Chaphalocrocis*
medinalis 19
- Diachasma alloenum*, parasitising
Rhagoletis pomonella 1663
- Diachasma furrugineum*, parasitising
Rhagoletis pomonella 1663
- Diadegma*
effect of insecticide 1647
parasitised by *Spilochalcis* sp. 469
parasitising
Cydia prythora 86
Heliothis virescens 469, 1647
Synanthedon salmachus 1625
- Diadegma compressa*, parasitising
Chionodes mediofuscella 815
- Diadegma fenestralis*, parasitising
Plutella xylostella 1076
- Diadegma interrupta*, parasitising
Epiphyas postvittana 228
- Diadegma larinellum*
against *Coleophora laricella*, in
USA 212, 1743
rearing methods 212
- Diadegma terebrans*, parasitising
Ostrinia nubilalis 516
- Diadromus collaris*, parasitising
Plutella xylostella 1076
- Diadromus subtilicornis*, parasitising
Acrolepis alliella 1446
- Diadromus ustulatus*, parasitising
Plutella xylostella 1076
- Diaeretiella rapae*
effect of insecticides 1071
host plant preference 1599
parasitising
Brevicoryne brassicae 1959
Diuraphis noxia 31
Lipaphis erysimi 1071
Myzus persicae 1599
Schizaphis graminum 31
- Dialectica scalariella*, against *Echium*
plantagineum, in Australia 1862
- Dialeurodes citri*
Aschersonia spp. against 1974
controlled by *Encarsia lahorensis*
1154, 1161
Encarsia lahorensis against 168
in Italy 168
in Turkey 1679
in USA 173, 1154
in USSR 1974
infected by *Aschersonia aleyrodis*
173
preyed on by
Clitostethus arcuatus 1679
Deraeocoris pallens 1679
Orius minutus 1679
Serangium parcesetosum against
1974
- Diaparsis huperae*, parasitising *Hypera*
nigrirostris, description 377
- Diaphania indica*, susceptible to
Paecilomyces farinosus 1507
- Diaphnocoris chlorionis*, parasitised
by *Leiothron maculipennis*, in
Canada 226
- Diaphorina citri*
biological control, in Reunion 643,
1996
parasitised by *Psyllaephagus*
diaphorinae, in Taiwan 387
- Diaprepes abbreviatus*, preyed on by
Phidippus regius, in USA 1004
- Diatrophus kincaidii*, parasitised by
Pteromalus gallicolus, in Canada 586
- Diatraea centrella*, biological control,
in Trinidad 1532
- Diatraea flavipennis*, *Apanteles*
flavipes against, in Brazil 6, 7
- Diatraea impersonatella*, biological
control, in Trinidad 1532
- Diatraea lineolata*, parasitised by
Trichogramma pretiosum, in
Nicaragua 1021
- Diatraea saccharalis*
Apanteles flavipes against 1, 6, 7,
1532, 1533, 1536
Bacillus thuringiensis against 513,
514, 1555

Diatraea saccharalis (contd.)

- egg predators 513
in Argentina 1967
in Barbados 1
in Brazil 3, 6, 7, 513, 514, 1533
in Peru 2, 1534, 1535, 1536, 1537, 1555, 1943
in Trinidad 1532
in USA 511, 512, 1014, 1015
infected by
 Beauveria bassiana 1967
 Hexamermis sp. 3
 Vairimorpha necatrix 1506
integrated control, review 1538
Lixophaga diatraea against 1, 512, 1532, 1533
Metagonistylum minense against 1533
Myobriopsis diadema against 1533
parasitised by
 Agathis stigmatera 511, 512
 Apanteles flavipes 511, 1014
 Metagonistylum minense 6
 Paratheresia claripalpus 6, 1536, 1555, 1906
 Telenomus alecto 1534
 Trichogramma brasiliensis 2, 1534
 Trichogramma fasciatum 2, 1534, 1535
Paratheresia claripalpus against 1533, 1537
preyed on by
 Pheidole spp. 1015
 Solenopsis invicta 1015
Trichogramma spp. against 1532, 1943
- Dibrachys*, parasitising *Oulema lichenis* 1568
Dicentrarchus punctatus, preying on fish fry 835
Dichocrocis punctiferalis, parasites, in India 141
Dichomeris ligulella, parasites, in USA 679
Dicladocerus japonicus
 against *Coleophora laricella*, in USA 212, 1743
 rearing methods 212
Dicladocerus westwoodii
 against *Coleophora laricella*, in USA 1743
 rearing methods 212
Dicrocoelium lanceolatum
 Nesovitreia hammonis, preying on vector 292
Dicrodiplosis, preying on *Phenacoccus manihoti* 87
Dicrotendipes nervosus, infected by *Entomophthora culicis*, in USA 1293
Dictyna, preying on pomegranate pests 1180
Dictyna reticulata, preying on citrus pests 644
Didea intermedia, preying on spruce aphids 1227
Dieffenbachias
 Tetranychus urticae, *Phytoseiulus macropilis* against, in USA 1761
Diglyphus, parasitising *Liriomyza* spp. 1075
Dimeromicrus kiesenwetteri, parasitising *Procecidochares utilis* 1334
Dinocarsis, parasitising *Rastrococcus iceryoides* 1172
- Dinotiscus dendroctoni*, parasitising *Dendroctonus frontalis* 649, 1750
Dione juno juno, *Bacillus thuringiensis* against, in Brazil 1691
Dioryctria abietella, infected by *Fusarium oxysporum orthoceras*, in USSR 1443
Dioryctria assamensis, parasites, in India 702
Dioryctria castanea, parasites, in India 702
Dioryctria sylvestrella, parasites, in India 702
Dipel
 against
 Achaea janata, in India 566
 Adisura atkinsoni, in India 1597
 apple pests, in Poland 1132
 Choristoneura fumiferana, in Canada 1228
 Crociodolomia binotalis, in India 1597
 Cydia pomonella, in Bulgaria 1660
 Diatraea saccharalis
 in Brazil 513, 514
 in Peru 1555
 Dione juno juno, in Brazil 1691
 Earias vittella, in India 1597
 Heliothis armigera, in India 1597
 Leucinodes orbonalis, in India 1597
 Leucoma wiltshirei, in Iran 675
 Loxostege sticticalis, in Bulgaria 545
 Ostrinia nubilalis, in Romania 517
 Pandemis heperana, in Bulgaria 1660
 Plutella xylostella
 in India 1078, 1597
 in Malaysia 1077
 Spilosoma obliqua, in India 1074
 Spodoptera frugiperda, in Peru 1555
 effect on
 Apanteles glomeratus 1522
 Pimpla turionellae 1522
 review of use, in USSR 1981
Dipetalonema manson-bahri, infecting fleas 769
Diplazon laetatorius
 parasitising
 Ischiodon scutellaris 984
 Sphaerophoria macrogaster 1446
 syrphids, behaviour 459
Diplazon orientalis, parasitising syrphids 1648
Diplazon tibiatorius, parasitising syrphids, behaviour 459
Diprion, parasitised by *Agrothereutes adustus*, in USSR 1956
Diprion pini
 in German Federal Republic 1223
 parasitised by
 Dahlbominus fuscipennis 1223
 Exenterus spp. 1223
 Palexorista inconspicua 1223
 Pleolophus basizonus 1223
Diprion similis
 in Italy 1224
 parasitised by
 Monodontomerus dentipes 1224
- Palexorista inconspicua* 1224
 preyed on by birds 1224
Diptera, from Nearctic Region, manual 918
Dirhinus, from India, taxonomy 899
Dirhinus giffardii
 biology 1489
 response to host 1490
Discodes coccophagus, parasitising *Sphaerolecanium prunastri* 1142
Disonycha argentinensis, against *Alternanthera philoxeroides*, in Australia 828
Titula angustiorana, parasitised by *Oedemopsis scabricula*, in Canada 915
Ditylenchus destructor, interaction with nematophagous fungi 1468
Ditylenchus dipsaci, interaction with nematophagous fungi 1468
Diuraphis noxia
 in USSR 31, 32
 parasitised by
 Aphelinus toxopteraphidis 31
 Diaeretiella rapae 31
 preyed on by
 Aeolothrips intermedius 31
 Aphidoletes aphidimyza 31
 Leucopis spp. 31
 Orius spp. 31
 Scymnus nigrinus 31
Dodonaea adenophora, goats against, in Australia 798
Dodonaea viscosa, controlled by goats, in Australia 798
Dolichostoma arequipae, parasitising *Copitarsia turbata* 1621
Dolichotarsus, parasitising *Sciopithes obscurus* 583
Dolichus halensis, preying on *Eurygaster integriceps* 29
Doru taeniatum, preying on *Spodoptera frugiperda* 1021
Doryctes palliatus, parasitising *Plagithmysus bilineatus*, biology 1480
Doryctobracon areolatus, parasitising *Anastrepha* spp. 1693
Doryctobracon crawfordi, parasitising *Anastrepha* spp. 1693
Doryctobracon toxotrypanae, parasitising *Toxotrypana curvicauda* 1693
Doryctobracon zeteki, parasitising *Anastrepha* spp. 1693
Doryphorophaga doryphorae
 parasitising *Leptinotarsa decemlineata*, density-dependent model 2061
Drepanocerus kazirangensis, description 298
Drepanocerus runicus, in dung, in India 298
Drepanocerus striatulus, in dung, in India 298
Drepanosiphum platanoidis
 parasitised by *Aphelinus thomsoni*, functional response 2043
 preyed on by *Formica rufa*, in UK 1716
Drosicha mangiferae, preyed on by *Sumnius cardoni*, in India 1172
Dryocoetes autographus, infected by *Nosema dryocoetes*, in German Federal Republic 411
Dryocosmus kuriphilus, parasitised by *Torymus* spp., in Japan 686, 1210

- Dufouria nigrita*, parasitising *Oulema melanopus* 1568
- Dugesia dorotocephala*, preying on *Culex quinquefasciatus*, effect of diflubenzuron 1893
- Dugesia tigrina*, against mosquitoes, in USA 1273, 1787
- Dung**
- Aphodius* spp., from South Africa 1429
- beetle survey, in Bulgaria 1845
- biological control, in Australia 1314
- Bubas* spp., behaviour 297
- Copris lunaris*, nesting behaviour 1843
- coprophagous beetles
- in Corsica 296
- in India 298
- trapping technique 359
- geotrupids in, in Spain 1315
- Musca autumnalis*, effect of dung beetles on development 280
- Onthophagus gazellus*
- effect of ammonia loss 295
- effect of size 1844
- in Niger 785
- Onthophagus* spp., preyed on by *Megacephala affinis*, in Panama 1316
- Scarabaeidae, in Morocco 784
- Dysaphis plantaginea*
- predators
- effect of food sprays 158
- in USA 1140
- Dysdercus**
- in Brazil 1633
- parasitised by
- Acaulona brasiliana* 1633
- Hemipteroseius sabbaticus* 1633
- Leptus* sp. 1633
- Dysdercus cingulatus*, susceptible to *Paecilomyces farinosus* 1507
- Dysdercus koenigii*, preyed on *Hemipteroseius indicus*, in India 138
- Dysmicoccus brevipes*, parasitised by *Hambletonia pseudococcinea*, in Taiwan 652
- Earias*, integrated control, in India 1635
- Earias biplaga*, infected by CPV 1636
- Earias insulana*, parasitised by *Trichogrammatoidea* sp., in India 1495
- Earias vittella*
- Bacillus thuringiensis* against 1597
- Chelonus blackburni* against 132
- in India 132, 1495, 1597
- parasitised by *Trichogramma -toidea* sp. 1495
- Echinocloa crus-galli*, infected by *Curvularia lunata*, in German Federal Republic 792
- Echinostomatidae, against pathogenic trematodes, review 1838
- Echiium plantagineum**
- attacked by *Ceutorhynchus* spp. 1862
- Dialectica scariella* against 1862
- in Australia 39, 821, 1855, 1862
- Longitarsus* spp. against 1862
- Ecithrodelphax fairchildii*, parasitising rice hoppers 22
- Ectomyelois certaniae*, *Phanerotoma flavitesticata* against, in Morocco 1707
- Ectropis obliqua*, infected by NPV, in China 1697
- Edovum puttleri*, parasitising *Leptinotarsa undecimlineata*, description 1940
- Egeria densa*, attacked by *Ctenopharyngodon idella*, in New Zealand 324
- Egg plants**
- Acherontia styx*, parasitised by *Trichogramma australicum*, in India 106
- Leucinodes orbonalis*, *Bacillus thuringiensis* against, in India 1597
- Egypt**
- Amaranthus caudatus*, attacked by *Hypolixus nubilosus* 805
- citrus scales, predatory mites 638
- clover pests, natural enemies 541, 1052
- Convolvulus arvensis*, natural enemies 801
- cotton pests, predators 600, 604
- Insulaspis tapleyi*, parasitised by *Encarsia citrina* 711
- Lindingaspis rossi*, parasitised by *Habrolepis* sp. 710
- Lymnaea caillaudi*, controlled by *Ambrosia maritima* 778
- mango mites, preyed on by *Amblyseius swirskii* 1174, 1175
- mosquitoes, predators 1839
- Orobancha crenata*, attacked by *Phytomyza orobanchiae* 837
- pomegranate pests, preyed on by *Dictyna* sp. 1180
- Portulaca oleracea*, natural enemies 809, 810
- schistosomiasis vector snails, *Ambrosia maritima* against 290
- Sclerotium cepivorum*, controlled by *Trichoderma harzianum* 569
- Sesamia cretica*, egg parasites 1023, 2013
- Spodoptera littoralis*
- Bacillus thuringiensis* against 1111
- parasites 133, 592, 2003, 2004
- stored products insects, natural enemies 1766
- Eichhornia crassipes**
- Acigona infusella* 1874
- attacked by
- Aethis pectinicornis* 320
- Neochetina eichhorniae*, effect on growth 825
- Cornops aquaticum* against 1874
- in Australia 1361, 1874
- in Bangladesh 320
- in Indonesia 1358, 1875
- in Sudan 824
- in Thailand 1467
- in USA 821, 822, 827, 1356, 1873
- Myrothecium roridum* against 1875
- Neochetina bruchi* against 1874
- Neochetina eichhorniae* against 1358, 1361, 1874, 1875
- Orthogalumna terebrantis* against 1874
- pathogens against 827, 1360
- Sameodes albigitalis* against 1356, 1361, 1873, 1874
- Elachertus argissa**
- against *Coleophora laricella*, in USA 1743
- rearing methods 212
- Elachertus thumus*, parasitising *Petrova albicapitana* 1748
- Elaphrus cupreus*, preying on *Culicoides* spp. 753
- Elasmopalpus lignosellus*
- in USA 1424, 1579
- parasitised by
- Agathis* sp. 1579
- Apanteles* sp. 1579
- Geron aridus* 1579
- Invreia* spp. 1424, 1579
- Macrocentrus* sp. 1579
- Orgilus elasmopalpi* 962, 1579
- Pristomerus spinator* 1579
- Elasmotethus atricornis*, parasitised by *Euclytia flava*, in USA 209
- Elasmotethus cruciatus*, parasitised by *Euclytia flava*, in USA 209
- Elasmucha lateralis*, parasitised by *Phasiomyia splendida*, in USA 209
- Elasmus**
- parasitising
- Euphyllura phillyreae* 445
- Phylacteophaga froggatti* 1217
- Elasmus flabellatus*, parasitising *Prays oleae* 647
- Elasmus funereus*, parasitising *Phthorimaea operculella* 107
- Elasmus johnstoni*, parasitising *Pectinophora gossypiella* 127
- Elasmus steffani*
- biology 1163
- parasitising *Prays oleae* 646, 1163
- Eldana saccharina*, integrated control, review 1538, 1539, 1540
- Eleocharis sphacelata*, attacked by *Ctenopharyngodon idella*, in New Zealand 324
- Elgiva sundewalli*, parasitised by *Trichogramma* spp. 777
- Elms**
- Brochymena plumipes*, parasitised by *Trichopoda plumipes*, in USA 1734
- gall aphids, preyed on by *Passer montanus*, in Japan 210
- Priophorus ulmi*, parasites, in Italy 1736
- Scolytus* spp., infected by *Phomopsis oblonga*, in UK 1208
- Xanthogaleruca luteola*, *Neoplectrona carpocapsae* against, in USA 1735
- Elomya lateralis*, parasitising *Aelia rostrata* 1569
- El Salvador**
- Dalbulus maidis*, parasitised by *Agonotopus* sp. 12
- Oligonychus punicae*, preyed on by *Typhlodromips benavidesi* 1461
- Emex*, *Apion antiquum* against in Australia 821, 1331
- Emex australis*
- Apion antiquum* against 1330
- attacked by *Lophyrotoma analis* 1330

- in Australia 39, 1330, 1332, 1862
Lixus cribricollis against 1332, 1862
Emex spinosa, *Lixus cribricollis* against, in Australia 1862
Emmalocera depressella biological control, in Pakistan 510
Emmelina monodactyla, attacking *Convolvulus arvensis* 801
Empoasca, predators, sampling technique 357
Encarsia against
Parabemisia myricae, in USA 1155
Trialeurodes vaporariorum, in Netherlands 443
parasitising
Aleurothrix floccosus 173
Paraleyrodes citri 173
taxonomic status 1929
Encarsia asterobemisiae, parasitising *Pealius quercus*, description 383
Encarsia basicincta, taxonomy 1931
Encarsia bemisiae parasitising
Bemisia tabaci, description 1930
Parabemisia myricae 1155
Encarsia berlesei against citrus pests, in USSR 1974
parasitising *Pseudaulacaspis pentagona* 1101
Encarsia bicolor, parasitising *Bemisia tabaci* 1930
Encarsia citrina parasitising
Aspidiotus nerii 645
Florinia externa 223
Insulaspis tapleyi 711
Tsugaspidiotus tsugae 223
Encarsia davidi description 383
parasitising
Acaudaleyrodes citri 383
Aleurolobus niloticus 383
Encarsia formosa against *Trialeurodes vaporariorum* in Czechoslovakia 1616
in Italy 1759
in Japan 1085
in Netherlands 443
in Sweden 117
in USA 1615
in USSR 1974
biology 964
effect of pesticides 855, 856, 1373
population dynamics 442
review of use 441, 934, 1464
temperature threshold 1994
Encarsia lahorensis against *Dialeurodes citri* in Europe 168, 1161
in USA 1154
Encarsia lounsburyi, parasitising *Lepidosaphes beekii* 1675
Encarsia lutea parasitising
Bemisia tabaci 383
Trialeurodes vaporariorum 1614
Encarsia opulenta against *Aleurocanthus woglumi*, in USA 172, 173
effect of pesticides 1678, 1889
searching behaviour 1677
survey traps 865
Encarsia pergandiella against *Trialeurodes vaporariorum* in Italy 118
in Netherlands 443
host selection 1994
taxonomy 1931
temperature threshold 1994
Encarsia perniciosi against *Quadraspidiotus perniciosus* in Australia 438
in Greece 1135
Encarsia pseudopartenopea, parasitising *Siphoninus phillyreae*, description 384
Encarsia tricolor against *Trialeurodes vaporariorum*, in Spain 580
temperature threshold 1994
Encyrtidae from
India 1935, 1936
Korea 446
North America 1937
South Africa 1960
world host list 1448
Encyrtus lecaniorum, parasitising *Eulecanium tiliae* 124
Endaphis gregaria, parasitising *Eucraphis gillettei*, description 1426
Endaphis perfidus, preying on aphids 1965
Endothia parasitica, controlled by *Trichoderma viride*, in Italy 1739
Enicospilus tristrigatus, parasitising *Thysanoplasia intermixta* 1446
Enicospilus xanthocephalus, parasitising *Crociodolomia binotalis* 90
Enizemum ornatum, parasitising syrphids, behaviour 459
Ennomos subsignarius in USA 207
parasitised by
Ooencyrtus ennemophagus 207, 1411
Telenomus droozii 207
Enoclerus spegheus, preying on *Dendroctonus pseudotsugae* 697
Enoplognatha ovata, preying on strawberry pests 1623
Entedon leucogramma, parasitising *Scolytus multistriatus* 1520
Entobakterin against
apple pests, in Poland 1132
cabbage pests, in USSR 1602
Hypoderma bovis 1832
Loxostege sticticalis, in Bulgaria 545
tree pests, in USSR 193, 194
effectiveness 81, 1000
in integrated control, in USSR 1371
Entomophthora from Israel 922
infecting
Acyrtosiphon kondoi 44, 54
Cinara pilicornis 224
Hypera postica 534
Plutella xylostella 1982
Therioaphis trifolii maculata 44
Trichoplusia ni 1638
taxonomic revision 414, 1439, 1440, 1441
Entomophthora aphidis infecting lucerne aphids 65
synonymy 413
Entomophthora aphrophorae, taxonomy 1440
Entomophthora conglomerata against
Aedes spp. 1795
Culex spp. 1795
Entomophthora culicis infecting
Chironomus spp. 1293
Dicrotendipes nervosus 1293
Entomophthora destruens, infecting *Culex pipiens* 255, 1796
Entomophthora egressa infecting
Lambdina fiscellaria 1238
Thymelicus lineola 1576
Entomophthora erupta, infecting *Notostira elongata* 1441
Entomophthora floridana, infecting *Tetranychus urticae*, overwintering 1508
Entomophthora fresenii, infecting *Aphis fabae* 65
Entomophthora gammae, infecting *Pseudoplusia includens*, effect of fungicide 1582
Entomophthora grylli infecting
Mamestra brassicae 2036
Zonocerus variegatus 1214
Entomophthora ignobilis, vertebrate safety 885
Entomophthora lampyridarum, infecting *Chauliognathus pennsylvanicus* 229
Entomophthora muscae, infecting *Musca domestica*, effect of humidity 760
Entomophthora obscura, infecting lucerne aphids 65
Entomophthora planchoniana against *Aphis fabae*, in UK 1065
ecology 1528
infecting
Acyrtosiphon kondoi 1573, 2037
Cavariella spp. 1528
spore production 2037
Entomophthora plusiae, infecting *Rachiplusia nu* 1967
Entomophthora sphaerosperma bioassay 540
infecting
Lambdina fiscellaria 1238
Therioaphis trifolii maculata 540
taxonomy 1440
Entomophthora virulenta, synonymy 412
Entomophthoraceae, revision 414, 1439, 1440, 1441
Enytus apostatus, parasitising *Epiphyas postvittana* 228
Eotetranychus carpini, predators, in Italy 1630
Eotetranychus pruni in Bulgaria 1629
in USSR 1671
preyed on by
Amblyseius spp. 1671
Anthocoris pilosus 1671
Anthosetius spp. 1671
Chrysoperla carnea 1671
Haplothrips subtilissimus 1671
Stethorus punctillum 1671
Zetzellia mali 1629

- Eotetranychus uncatus*, predators, in USA 627
- Eotetranychus willamettei*, preyed on by *Typhlodromus occidentalis*, in USA 1008
- Ephedrus plagiator* against *Acyrtosiphon* spp., in New Zealand 52
- parasitising *Sitobion rosaeiformis* 927
- Ephestia*, parasitised by *Bracon* spp., in Saudi Arabia 1769
- Ephestia cautella* controlled by *Bracon hebetor*, in USA 1768
- parasitised by *Bracon hebetor* 1767
- effect of insecticides 1248
- Venturia canescens*, behavioural response model 2062
- Phanerotoma flavitestacea* against, in Morocco 1707
- preyed on by *Blattisocius tarsalis* 1770
- susceptibility to *Bacillus thuringiensis* 1249, 1772
- Ephestia elutella*, susceptibility to *Bacillus thuringiensis* 1249
- Ephestia kuehniella* parasitised by *Bracon hebetor* 959
- Pentalitomastix* sp. 2044
- susceptibility to *Bacillus thuringiensis* 1249
- Ephialtes capulifera*, parasitising *Thysanoplusia intermixta* 1446
- Ephialtes ontario*, parasitising *Choristoneura fumiferana* 1230
- Epiateschna heros*, preying on *Solenopsis invicta* 1308
- Epichoristodes acerbella* in Spain 1245
- parasitised by *Actia pilipennis* 1245
- Colpoclypeus florae* 1245
- Itopectis maculator* 1245
- Nemorilla maculosa* 1245
- Trichogramma evanescens* 1245
- Epicoccum purpurascens*, against *Valsa* spp., in German Federal Republic 631
- Epidiaspis leperii*, preyed on by *Hemisarcophaga malus*, in Bulgaria 1668
- Epilachna varivestis*, controlled by *Pediobius foveolatus*, in USA 1584
- Epinotia albanguana*, parasitised by *Oedemopsis scabricula*, in Canada 915
- Epinotia aporema* in Chile 537
- infected by *Baculovirus* sp. 537
- Streptococcus* sp. 537
- Epinotia solandriana*, parasitised by *Oedemopsis scabricula*, in Canada 915
- Epiphyas postvittana* in Australia 154, 622, 1983
- in UK 228
- parasitised by *Campoplex restrictor* 228
- Diadegma interrupta* 228
- Enytus apostatus* 228
- Goniozus jacinthae* 622
- Meteorus ictericus* 228
- Trichogramma funiculatum* 154
- Triclistus globulipes* 228
- Epipyrops melanoleuca*, parasitising *Pyrilla perpusilla* 1564
- Epirrita autumnata*, preyed on by *Formica aquilonia*, in Finland 687
- Epistrophe griseocincta*, preying on *Rhopalosiphum maidis* 1962
- Epistrophe nitidicollis*, preying on spruce aphids 1227
- Episyrrhus balteatus* effect of pyrethroids 1372
- preying on *Aphis gossypii* 102
- spruce aphids 1227
- Episyrrhus viridaureus*, preying on *Pentalonia nigronervosa* 1650
- Equisetum arvense*, biology, in Canada 317
- Erannis defoliaria*, *Bacillus thuringiensis* against, in USSR 193, 1730
- Eremotylus*, from Indo-Papuan region 893
- Erencyrtus dewitzii*, synonym 1935
- Eretmocerus* against *Parabemisia myricae*, in USA 1155
- Trialeurodes vaporariorum*, in Netherlands 443
- parasitising *Aleurothrix floccosus* 173
- Pinnaspis aspidistrae* 640
- Eretmocerus haldemani*, parasitising *Trialeurodes vaporariorum* 1614
- Eriborus argenteopilosus*, parasitising *Prosopalta capensis* 1595
- Eriborus sinicus*, parasitising *Ostrinia furnacalis* 1446
- Erigone dentosa*, preying on citrus pests 644
- Erigonidium graminicolum*, preying on cotton pests 603
- Erinnyis ello* controlled by natural enemies 558, 559, 1587
- in Brazil 558, 559, 560
- in Colombia 1587
- infected by GV 560
- parasitised by *Apanteles* sp. 559
- Telenomus* sp. 559
- Trichogramma* spp. 559
- preyed on by *Podisus* sp. 559
- Polistes* spp. 559
- Eriocereus martinii*, controlled by *Hypogeococcus festerianus*, in Australia 787, 821
- Eriocereophaga humeridensis*, attacking *Eriocereus martinii* 787
- Eriococcus ironsidei* in Australia 906, 1430
- preyed on by *Amblyseius nambourensis* 1430
- Phytoseius hawaiiensis* 906
- Eriophyes guerreronis* infected by *Hirsutella thompsonii* 1703
- preyed on by *Lupotarsonemus* spp. 1703
- Eriophyes vitis*, preyed on by *Typhlodromus reticulatus* 123
- Eriosoma lanigerum* biological control, in Australia, review 1133
- natural enemies, effect of diflubenzuron 1994
- parasitised by *Aphelinus mali*, in Peru 1662
- Eristalinus aeneus*, preying on onion aphids 91
- Erwinia carotovora* inhibited by *Pseudomonas fluorescens* 1471
- rhizobacteria 1471
- Erynia ithacensis*, infecting *Symphoromyia hirta* 1827
- Erynia neoaphidis*, description 413
- Erynia nouryi*, description 413
- Estigmene acrea*, virus bioassay 870
- Euaresta aequalis*, attacking *Xanthium strumarium* 310
- Eublemma amabilis* parasitised by *Bracon greeni* 725
- preying on *Kerria lacca* 725
- Eucalyptus* *Euselasia eucerus*, parasitised by *Trichogramma maxacalii*, in Brazil 401
- Paropsis charybdis* *Cleobora mellyi* against, in New Zealand 691, 1218
- predators, in New Zealand 690, 691
- Pestalotiopsis funerea*, antagonists, in India 1219
- Phylacteophaga froggatti*, parasites, in Australia 1217
- Pyrrhopyge pelota*, infected by *Beauveria bassiana*, in Argentina 1967
- Strathmorrhopa aphotista*, infected by *Beauveria bassiana*, in Australia 689
- Eucelatoria* against *Heliothis armigera*, in India 1121, 1586
- effect of water-deprivation 1488
- olfactory responses 976
- taxonomic revision 1944
- Euceraaphis gillettei*, parasitised by *Endaphis gregaria*, in Canada 1426
- Euclytia flava*, parasitising *Elasmotherus* spp. 209
- Euderus albitarsis*, parasitising *Argyresthia laevigatella* 1236
- Eudictoria tibialis*, prey 502
- Eulachnus agilis*, preyed on by coccinellids, in German Democratic Republic 1755
- Eulecanium tiliae* in Greece 124
- parasitised by *Blastothrix sericea* 124
- Encyrtus lecaniorum* 124
- preyed on by *Anthrribus fasciatus* 124
- Eulophidae*, from Korea 446
- Eulophus larvarum*, effect of venom on host 967
- Eumeta variegata*, infected by NPV, in China 666
- Eumicrosoma beneficum*, parasitising *Blissus leucopterus hirtus* 542

- Eupatorium adenophorum*,
Procecidochares utilis against,
in India 1334
- Eupelmus*
parasitising
Bucculatrix thurberiella 1644
Chionodes mediofuscella 815
Phylacteophaga froggatti 1217
- Eupelmus urozonus*, parasitising
Dacus oleae 1166
- Euphorbia cyparissias*
attacked by *Chamaesphecia*
empiformis 811
in Austria 811
in Canada 925
- Euphorbia esula*
attacked by
Chamaesphecia
tenthrediniformis 811
Onochila simplex 1858
in Austria 811
insects against, in Canada 925,
926, 1971
- Euphorbia maculata*, insect fauna,
in USA 1857
- Euphorocera floridensis*, parasitising
Hymenomima extersaria 1694
- Euphorocera peruviana*, parasitising
Copitarsia turbata 1621
- Euphyllura*, parasitised by
Psyllaphagus euphyllurae, in
Greece 445
- Euphyllura olivina*, preyed on by
Chrysoperla carnea in France
1689
- Euphyllura phillyreae*
in Greece 445
parasitised by
Alloxysta sp. 445
Elasmus sp. 445
Tetrastichus sp. 445
Trechmites sp. 445
- Euplectrus*
from India, taxonomy 389
parasitising *Spodoptera frugiperda*
518
- Euplectrus euplexiae*, parasitising
Prospalta capensis 1595
- Euplectrus kuwanae*, parasitising
Ctenoplistia albostrigata, biology
966
- Euplectrus platyhypenae*
biology 2011
parasitising *Spodoptera* spp. 1066,
2011
- Euplectrus puttleri*, parasitising
Anticarsia gemmatilis, in USA 555
- Eupoecilia ambiguella*, *Bacillus*
thuringiensis against, in
Switzerland 588
- Euproctis chrysorrhoea*
Bacillus thuringiensis against
in Greece 704
in Poland 1132
in USSR 1721
- Euproctis lunata*
in India 1072, 1594
parasitised by
Carcelia corvinoides 1072,
1594
Exorista larvarum 1072, 1594
- Euproctis melania*
in Iraq 678
parasitised by
Apanteles sp. 678
Pteromalus sp. 678
- Eupteromalus*, parasitising *Oulema*
lichenis 1568
- Eupteromalus parnaeae*, parasitising
Apanteles plutellae 99
- Euptoieta hegesia*, attacking
Ipomoea spp. 804
- Eurithia consobrina*, parasitising
Mamestra brassicae, effect of
insecticide 97
- Eurygaster*
in Romania 27
parasitised by
Telenomus spp. 27, 28
Trissolcus spp. 27
- Eurygaster austriaca*, natural enemies,
in USSR 28
- Eurygaster integriceps*
carabid predators 29, 351
fungal pathogens, effect of
pesticides 863
in Romania 532
in USSR 28, 29, 1039, 1040
natural enemies, review 1566
parasitised by
Telenomus spp. 28, 532,
1039
Trissolcus spp. 532, 1039
- Eurygaster maura*
natural enemies, in USSR 28
parasitised by *Trissolcus*
semistriatus, in Turkey 1569
- Euryophion*, from Indo-Papuan
region 893
- Eurytoma*
parasitising
Dendroctonus frontalis 1750
Leperisinus oregonus 682
Procecidochares utilis 1334
- Eurytoma appendigaster*, parasitising
Apanteles sp. 247
- Eurytoma attiva*, against *Cordia*
curassavica in Malaysia 807
- Eurytoma gossypii*, parasitising
Anthonomus grandis 1632
- Eurytoma pini*, parasitising *Rhyacionia*
frustrana 214
- Euseius distinctus*, description 1462
- Euseius saltus*, description 1462
- Euselasia eucerus*, parasitised by
Trichogramma maxacalii, in Brazil
401
- Eutetranychus citri*, predators, in
Egypt 604
- Eutetranychus orientalis*
in Egypt 604
in India 1591
preyed on by
Olios sp. 1591
Scolothrips indicus 1591
Poecilochroa sp. 1591
- Eutetranychus palmatus*, predators,
in Egypt 604
- Euthyrhynchus floridanus*, inhibiting
searching of other predators 2057
- Eutrichosiphum pasaniae*, parasitised
by *Trioxys eutrichosiphi*, in Japan
380
- Eutrixia exilis*, trapping technique 358
- Euxoa messoria*, parasitised, in Canada
1452
- Euxoa scandens*, infected by CPV 1511
- Euzophera cinerosella*, attacking
Artemisia spp., host range 1335
- Evarthrhus sodalis*
preying on
Hypera postica 57
- Sitona hispidulus* 57
- Evergestis forficalis*, *Trichogramma* spp.
against, in Netherlands 1601
- Exenterus abruptorius*, parasitising
Neodiprion sertifer 1226
- Exenterus amictorius*, parasitising
Diprion pini 1223
- Exenterus oriolus*, parasitising
Diprion pini 1223
- Exeristes comstockii*, parasitising
Petrova albicapitana 1748
- Exhyalanthrax*, parasitising flies 431
- Exochomus concavus*, preying on
Phenacoccus manihoti 87, 88
- Exochomus flavipes*, preying on
Phenacoccus manihoti 557, 1069
- Exochomus flaviventris*, preying on
Phenacoccus manihoti 87, 88
- Exochomus quadripustulatus*
effect of insecticides 1676
preying on
Cryptococcus fagisuga 208
Saissetia oleae 1683
- Exochus nigripalpis subobscurus*
parasitising
Argyrotaenia citrana 1102
Aristotelia argentifera 1102
- Exorista*
parasitising
Boarmia selenaria 184
Phalaenoides glycinae 589
- Exorista civilis*, parasitising *Loxostege*
sticticalis 544
- Exorista larvarum*
parasitising
Artogeia rapae 95
Euproctis lunata 1072, 1594
Heliothis virespata 61
Pieris brassicae 95
Spodoptera littoralis 592
- Exorista sorbillans*, parasitised by
Nesolynx thymus, in Bangladesh 1780
- Exorista xanthaspis*, parasitising
Heliothis virespata 61
- Exoristinae*, from Bulgaria 919
- Falconiformes*, in North America
1255
- Farinocystis tribolii*, infecting *Tribolium*
castaneum 1774
- Fasciola gigantica*, inhibited by *Cercaria*
guttera, in Tanzania 780
- Fasciola hepatica*, predators against
vector, in France 294
- Fenusa pusilla*, natural enemies against,
in Canada 688, 924, 925, 926, 1971
- Ferrisia virgata*
in Congo 87
in Mexico 1933
parasitised by
Aenasius advena 87
Blepyrus insularis 87
Pseudaphycus debachi 1933
- Figs**
Ceratosenes marchali, parasitised
by *Apocrypta bakeri*, in India 472
- Eulecanium tiliae*, natural enemies
in Greece 124
- Prionoxystus robiniae*, controlled
by *Neoaplectona carpocapsae*,
in USA 634
- Fiji**
Tetranychus sp., preyed on by
Amblyseius spp. 424
- Filipjevimeris leipsandra*, rearing
technique 1406

Finland

- Argyresthia laevigatella*, parasites 1236
 bark beetles, preyed on by woodpeckers 700
Chernes cimicoides, preying on *Phytoseiulus persimilis* 1084
Epirrita autumnata, preyed on by *Formica aquilonia* 687
 Ichneumonidae 914
Fiorinia externa, parasitised by *Encarsia citrina*, in USA 223
- Firs**
Choristoneura fumiferana
Bacillus thuringiensis against in Canada 1228
 in USA 1228, 1229
 parasites, in Canada 1230
Choristoneura occidentalis
Neoplectana carpocapsae against, in USA 1735
 parasites, in USA 1232, 1741
Lambdina fiscellaria, controlled by *Entomophthora* spp., in Canada 1238
Orgyia pseudotsugata
 controlled by NPV, in Canada 1234
 infected by NPV, in USA 1235
Fomes connatus, *Trichoderma harzianum* against, in USA 1212
Forcipomyia fuliginosa, parasitising *Cephanodes hylas* 654
Forficula auricularia
 preying on
Cryptococcus fagisuga 208
Hypera postica 1046
Toxoptera auranitii 1699
Formica, preying on oak pests, review 1190
Formica aquilonia
 in Sweden 1425
 preying on *Epirrita autumnata* 687
Formica lugubris
 ecology 665
 effect on other arthropods 198, 1715
 in Sweden 1425
Formica nigricans, in Sweden 1425
Formica polyctena, in Sweden 1425
Formica pratensis
 effect of *Bacillus thuringiensis* 96
 in Sweden 1425
 in USSR 199
 preying on *Lymantria dispar* 670
Formica rufa
 against *Tortrix viridana*, in USSR 709
 in Sweden 1425
 preying on
Drepanosiphum platanoidis 1716
 onion pests 91
Operophtera brumata 1716
 working group report 338
Formica yessensis, preying on *Dendrolimus spectabilis* 215
- France**
Acyrtosiphon pisum ononis, parasitised by *Aphidius* spp. 79
Agrobacterium tumefaciens, A. radiobacter against 715
Anoecia sp., infected by *Zoopthora aphidis* 413
 aphids, ecology of fungal pathogens 1528
 Chrysopidae 373
 parasites 648

- citrus coccids, natural enemies, effect of insecticides 1676
Cryptococcus fagisuga, predators 208
Culicoides spp., preyed on by *Elaphrus cupreus* 753
Cydia pomonella, *Trichogramma embryophagum* against 148
Dacus oleae, chrysopid predators 178
Dicrocoelium lanceolatum, *Nesovitea hammonis* preying on vector 292
 dung beetles, in Corsica 296
Fasciola hepatica, predators against vector 294
Ips sexdentatus, infected by nematodes 1222, 1752
Leptinotarsa decemlineata, *Beauveria bassiana* against 113
Lymnaea truncatula, predators against 294
Macrosiphoniella oblonga, infected by *Conidiobolus osmodes* 225
Mamestra brassicae, NPV against 1609
 olive pests, preyed on by *Chrysoperla carnea* 1689
Oryctolagus cuniculus, fleas 239
Ostrinia nubilalis, parasitised by *Trichogramma* spp. 1549, 1942
Otiiorhynchus meridionalis, natural enemies 584
Pandemis heperana, infected by NPV 1661
Panonychus ulmi, predators 1665
 pear pests, integrated control 164
Prays oleae, integrated control 647
Psylla spp.
 integrated control 628
 natural enemies 1141, 1665, 1938
Rhyacionia buoliana, parasite complex, effect of pollution 213
Rumex spp., natural enemies 1862
Thaumetopoea pityocampa, parasitised by *Villa brunnea* 1745
Frankliniella occidentalis, preyed on by *Nabis* spp., in USA 60
Fringilla coelebs
 preying on
Operophtera brumata 1206
Tortrix viridana 1206
Frumenta nundinella, attacking *Solanum carolinense* 1867
Fusarium
 infecting
Coccus viridis 1695
Malacosoma neustria 153
Phyllophaga anxia 549
 inhibited by *Aphelenchus avenae* 66
 suppressive soils 946
Fusarium coccophillum
 infecting
Aonidiella aurantii 1680
Chrysomphalus aonidum 1680
Unaspis yanonensis 1680
Fusarium equiseti, infecting *Orobanche ramosa* 1885
Fusarium lateritium
 infecting
Abutilon theophrasti 1856
Anoda cristata 1856
Sida spinosa 1856
Fusarium moniliforme subglutinans
 infecting *Plantago lanceolata* 1344

- Fusarium oxysporum*
 infecting
Aedes detritus 741
Cuscuta spp. 1364
Heterodera schachtii 93
Orobanche ramosa 1885
 inhibited by *Suillus grevillei* 1240
 inhibiting *Gaeumannomyces graminis tritici* 35
Fusarium oxysporum albedinis, antagonist, in Algeria 661
Fusarium oxysporum cubense, controlled by antagonists, in Taiwan 653
Fusarium oxysporum dianthi, inhibited by *Arthrobacter* sp., in Israel 230
Fusarium oxysporum gladioli
 controlled by
F. solani 714
Gibberella fujikuroi subglutinans 232, 714
 in USA 232, 714
Fusarium oxysporum lycopersici, *Trichurus spiralis* against 1472
Fusarium oxysporum orthoceras
 against *Orobanche aegyptiaca*, in USSR 1884
 infecting
Dioryctria abietella 1443
Galleria mellonella 1443
Inachis io 1443
Fusarium oxysporum vasinfectum
 inhibited by *Trichoderma viride*, in USSR 1115
Trichurus spiralis against 1472
Fusarium roseum, against *Hydrilla verticillata* 821, 827
Fusarium semitectum, infecting *Cuscuta* spp. 1364
Fusarium solani
 controlled by *Aphelenchus avenae* 1126
 controlling *F. oxysporum gladioli*, in USA 714
 infecting *Orobanche ramosa* 1885
Fusarium solani cucurbitae, infecting *Curcubita texana* 1346
Fusarium sporotrichiella trichinctum, inhibiting *Puccinia suaveolens* 1324
Fusarium sporotrichioides, infecting *Myriophyllum spicatum* 1363
Gaeumannomyces graminis tritici, antagonists 35
Galactites tomentosa
 attacked by
Ceutorhynchus trimaculatus 1322
Trichosporocaulus horridus 1322
 in Italy 1322
Galeruca rufa
 attacking *Convolvulus arvensis* 308
 infected by *Nosema* sp. 1336
Galleria mellonella
Bacillus thuringiensis against 723
 in Pakista 723
 in USA 1260, 1767
 in USSR 722, 1443
 infected by
Beauveria spp. 722
Fusarium oxysporum orthoceras 1443
Gibberella fujikuroi 1443
Paecilomyces farinosus 722
 parasitised by
Apanteles galleriae 1260
Bracon hebetor 1260, 1767

Galleria mellonella (contd.)

- Venturia canescens* 1260
susceptible to
Heterorhabditis bacteriophora
1505
Neoplectana carpocapsae 483,
1781
spiroplasmas 724

Galumna,

preying on nematodes 1009

Gambusia, against mosquitoes, in USSR 249**Gambusia affinis**

- against mosquitoes
in Australia 1263
in India 1267
in USA 269, 270, 271, 272,
275, 1266, 1268
bibliography 930
effect of fungicide 1783
efficiency 726
holding technique 872

Ganaspis pelleranoi, parasitising

Ceratitis capitata 1693

Gastromermis

- embryonic development 2032
infecting *Aedes hexodontus* 1793
mounting techniques 1393

Gastromermis cloacachilus, infecting

Gigantodax wrighti, description 1435

Gastromermis metae, infecting *Simulium*

spp., description 1951

Gastrophysa atrocyanea, attacking *Rumex*

obtusifolius 812

Gastrophysa polygoni, infected by

Nosema gastroideae, separation
technique 1898

Gelis

parasitising

- Apanteles* sp. 247
Oulema melanopus 1568

Gelis areator, parasitising *Enytus*

apostatus 228

Gelis asozanus, parasitising *Meteorus*

narangae 1446

Gelis ilicicolator, parasitising

Chrysoperla carnea 179, 648

Geocoris

preying on

- cotton pests 125, 603
lucerne pests 60
soyabean pests
effect of insecticides 75
precipitin test 1058

Geocoris bullatus

- feeding niche 499
preying on *Myzus persicae*
effect of plant density 2067
food plant preference 1599

Geocoris pallens, effect of insecticides 1376**Geocoris punctipes**

- artificial diets 1910
effect of insecticides 136, 1376
feeding niche 499
preying on

- Autographa biloba* 1574
cotton pests 1106
Heliothis virescens 1642
Rachiplusia ou 1574
sunflower pests 89

Geocoris uliginosus

- feeding niche 499
preying on
Autographa biloba 1574
Rachiplusia ou 1574

Geotrupes spiniger, burying dung,
in Corsica 296**Gerberas**

Trialeurodes vaporariorum,
integrated control, in Italy 1759

German Democratic Republic

- Cinara* spp., preyed on by coccinellids
1755
Musca domestica
parasitised by
Muscidifurax raptor 1828
Ophyra aenescens 1302

German Federal Republic

- Diprion pini*, parasites, 1223
Dryocoetes autographus, infected
by *Nosema dryocoetesi* 411
forest pests, biological control,
literature review 663
Heterodera humuli, infected by
Hirsutella heteroderae 605
Hylobius abietis, infected by
Nosema hylobii 911
Ixodes ricinus, parasitised by
Hunterellus hookeri 771
Leperisinus fraxini, infected by
Ophryocystis hylesini 411
Otiorthynchus sulcatus, *Metarhizium*
anisopliae against 1095
Valsa spp., antagonists against 631
weed pathogens 792
Xyloterus domesticus, infected by
Pleistophora xyloteri 411

Geron aridus, parasitising *Elasmopalpus*

lignosellus 1579

Gibberella fujikuroi

- infecting
Dendrolimus sibiricus 1443
Galleria mellonella 1443
Gibberella fujikuroi subglutinans
controlling *Fusarium oxysporum*
gladioli, in USA 232, 714
inhibited by *Arthrobacter* sp. 706

Gibbium psylloides, parasitised by

Cephalonomia paniceum 720

Gigantodax wrighti, infected by

Gastromermis cloacachilus, in
Guatemala 1435

Ginger

insect pests, parasites, in India 141

Gladiolus

- Fusarium oxysporum gladioli*,
controlled by antagonists, in
USA 232, 714

Glasshouse

aphids, biological control, in Canada
1611

Aphis gossypii, predators against,
in USSR 102, 103, 104

biological control, reviews 934, 956,
1084

Chernes cimicoides, preying on

Phytoseiulus persimilis 1084

Heliothis armigera, GV against, in
USSR 581

integrated pest control 338, 855,
856, 857

Liriomyza bryoniae

parasites

in Netherlands 444

in Sweden 1760

Otiorthynchus sulcatus, *Heterorhabditis*

sp. against in Netherlands 1097

pests of ornamentals, biological

control, in USSR 709

Phytomyza syngenesiae, parasites,
in Sweden 1760

Sphaerotheca fuliginea, inhibited by
Ampelomyces quisqualis, in
Norway 577

sucking pests, preyed on by

Macrolophus nubilus, in USSR 119

Tetranychus urticae

Phytoseiulus macropolis against

in USA 1761, 1762

Phytoseiulus persimilis against

in USA 1612, 1762

in USSR 104

introduction technique 576

Trialeurodes vaporariorum

alternative parasites, in

Netherlands 443

Anthocoris nemorum against,

in Sweden 1086

Aschersonia sp. against, in USSR

105

Encarsia formosa against

effect of fungicide 1373

in Czechoslovakia 1616

in Japan 1085

in USA 1615

population dynamics 442

Encarsia pergandiella against,

in Italy 118

Encarsia tricolor against, in

Spain 580

integrated control

in Italy 1759

in Sweden 117

Verticillium lecanii against, in

Sweden 1087

Glena bisulca

in Colombia 1710, 1711, 1712

parasitised by *Trichophora melas*

1710

Gladiolus, inhibiting *Verticillium*

alboatrum 1617

Gladiolus deliquescens, inhibiting

Sclerotinia sclerotiorum 1518

Gladiolus virens, inhibiting

Rhizoctonia solani 556

Glischrochilus fuscatus, parasitised

by *Hyalomyodes triangulifer*, in
USA 1631

Glossina

biological control, review 1833

control methods, review 1820

pathogens, bibliography 282

Glossina nigrofusca nigrofusca,

infected by *Hexameris glossinae*
909

Glossina pallicera pallicera, infected by

Hexameris glossinae 909

Glossina palpalis, infected by *Hexameris*

glossinae 909

Glypta, parasitising *Chionodes mediofuscella*

815

Glypta fumiferanae

parasitising

Choristoneura fumiferana 1230

Choristoneura occidentalis 1232,

1896

Glypta inversa, parasitising *Choristoneura*

conflictana 1737

Glypta resinanae, parasitising

Blastesthia turionella 703

Glyptocolastes, parasitising *Apat*

monachus 1713

Glyptotendipes paripes, susceptible

to *Bacillus thuringiensis israelensis*
1811

Goats, maintaining fuelbreaks, in

USA 313

Goeldichironomus holoprasinus,

infected by *Microsporidium*
goeldichironomi, in USA 910

- Gomelin**
against tree pests, in USSR 194, 1721
effectiveness 1000
- Gonatocerus**
parasitising
Chunrocerus niveosparsus 561
Nephotettix spp. 524, 1028, 1557
- Gonia sagax**, trapping technique 1390
- Goniocotes gallinae**, infected by
Bacillus thuringiensis, in USSR 1968
- Goniozus**, parasitising *Pectinophora gossypiella* 127
- Goniozus emigratus**, biology 2015
- Goniozus jacintae**, parasitising
Epiphyas postvittana 622
- Gonocerus acutaeangulatus**, parasitised by *Gryon bosellii*, in Italy 396
- Gonometa podocarpi**, infected by NPV, in Kenya 1749
- Goryphus**
parasitising
Alcidodes affaber 137
Chlumetia transversa 1172
- Graeffea crouanii**
Paranastatus spp. against in Tokelau Is. 1701
in Western Samoa 187
- Grahamella**, infecting rodents, in UK 245
- Grams**
Macrophomina phaseolina, antagonists, in India 84
pest complex, preyed on by *Polistes olivaceus*, in India 85
- Grapes**
Argyrotaenia citrana, parasites, in USA 1102
Brevipalpus levisi, preyed on by *Typhlodromus reticulatus*, in Australia 123
Eotetranychus pruni, predators, in Bulgaria 1629
Eriophyes vitis, preyed on by *Typhlodromus reticulatus*, in Australia 123
Eupoecilia ambiguella, *Bacillus thuringiensis* against, in Switzerland 588
integrated pest control 338
Lobesia botrana, *Bacillus thuringiensis* against, in Switzerland 588
mite fauna, in Italy 1630
mites, preyed on by *Typhlodromus occidentalis*, in USA 1008
Otiorynchus sulcatus, *Heterorhabditis heliothidis* against, in Australia 1098
Phalaenoides glycinae, natural enemies, in Australia 589
- Graphognathus leucoloma**
biological control, in New Zealand 50, 552
infected by *Heterorhabditis* sp., in Australia 1050
- Greece**
aphids, predators 415
Aspidiotus nerii, parasitised by *Aphytis melinus* 645
Dacus oleae
chrysopid predators 180
mortality factors 1166
Eulecanium tiliae, natural enemies 124
- Euphyllura phillyreae*, parasites 445
Euproctis chrysorrhoea, *Bacillus thuringiensis* against 704
olive pests, predators, attraction to bait traps 1690
Quadraspidiotus perniciosus, *Encarsia perniciosi* against 1135
Saissetia oleae, parasitised by *Metaphycus* spp. 182
Thaumetopoea pityocampa, *Bacillus thuringiensis* against 704
Therioaphis trifolii, parasites 539
- Groundnuts**
Amsacta moorei, infected by NPV, in India 520
Elasmopalpus lignosellus, parasites, in USA 1424, 1579
Mycosphaerella spp., inhibited by *Hansfordia pulvinata*, in India 554
- Gryllus pennsylvanicus**
preying on
Hypera postica 57
Sitona hispidulus 57
- Gryon**
immature stages 970, 971
taxonomy 904
- Gryon bosellii**
description 396
parasitising
Coreus marginatus 396
Gonocerus acutaeangulatus 396
- Gryon flavipes**, parasitising *Leptocoris oratorius* 1562
- Gryon gallardoi**, parasitising *Corecoris lativentris* 1651
- Gryon howardi**, parasitising *Lymantria dispar* 195
- Gryon lymantriae**, parasitising *Lymantria dispar* 195
- Gryon molinae**, parasitising *Anasa guttifera* 1651
- Gryon monspeliensis**
biology 970
parasitising *Aelia rostrata* 30, 970
- Gryon terraesanctae**, parasitising *Acrosternum millierei*, description 396
- Guadeloupe**
Biomphalaria glabrata, *Ribeiroia marini* against 1288
Heliothis zea, parasitised by *Metagonistylum minense* 1554
Spodoptera frugiperda, parasites 1554
- Guatemala**
simuliids, new mermithids 1435
Simulium ochraceum, *Bacillus thuringiensis israelensis* against 759
- Guavas**
scale insects, parasites, in India 1936
- Guiglia schauinslandi**, parasitising *Sirex noctilio* 1195
- Gutierrezia microcephala**, attacked by *Crossidius pulchellus*, in USA 1869
- Gutierrezia sarothrae**, attacked by *Crossidius pulchellus*, in USA 1869
- Gynaikothrips ficorum**, *Montandoniola moraguesi* against, in Bermuda 1475
- Gynosoma rotundatum**, parasitising *Aelia rostrata* 1569
- Gynosoma rungsi**, parasitising *Aelia rostrata* 1569
- GYPCHECK**, against *Lymantria dispar*, in USA 674
- Gyraulus chinensis**, preyed on by *Sepedon aenescens* 1313
- Habrolepis**, parasitising *Lindingaspis rossi* 710
- Habronyx albifrons**, parasitising *Ormiscodes rufosignata* 451
- Hadzhibeylia physococci**, parasitising *Ritsemia nanus*, description 1932
- Haemaphysalis bispinosa**, parasitised by *Hunterellus sagarensis*, in Japan 773
- Haemaphysalis flava**, parasitised by *Hunterellus sagarensis*, in Japan 772
- Haemaphysalis longicornis**, parasitised by *Hunterellus sagarensis*, in Japan 772
- Haemaphysalis punctata**, infected by *Bacillus thuringiensis*, in USSR 1968
- Haematobia irritans**
effect of dung beetles 359
effect on dung 295
- Haematobia irritans exigua**, biological control, in Australia 1314
- Haematopota**, pathogens, in USSR 765
- Haemonchus**, preyed on by fungi 1842
- Halotydeus destructor**, biological control, in Australia 39, 1051
- Halticoptera**, parasitising *Liriomyza* spp. 1075
- Hambletonia pseudococcinna**, parasitising *Dysmicoccus brevipes* 652
- Hansfordia pulvinata**, inhibiting *Mycosphaerella* spp. 554
- Haplogonatopus**, parasitising rice hoppers 22, 1029
- Haplorthynchites aeneus**, predators, in USA 89
- Haplothrips subtilissimus**
preying on
Aculus schlechtendali 1140
Eotetranychus pruni 1671
- Harmonia**, in glasshouse, in USSR 432
- Harmonia antipoda**, preying on *Paropsis charybdis* 691
- Harmonia axyridis**
against aphids, in USSR 709
effect of insecticides 1377
- Harmonia conformis**
controlling *Eriosoma lanigerum*, in Australia 1133
preying on *Paropsis charybdis* 691
- Harmonia dimidiata**, preying on *Aphis craccivora* 1064, 1456
- Harmonia sedecimnotata**, preying on *Aphis craccivora* 1456
- Harpalus distinguendus**, preying on wheat pests 1040
- Harpalus pensylvanicus**
preying on
Diabrotica longicornis 15
Hypera postica 57
Sitona hispidulus 57
- Harpalus rufipes**
preying on
Eurygaster integriceps 29, 1040
Leptinotarsa decemlineata 1093
- Harpalus smaragdinus**, preying on *Eurygaster integriceps* 29
- Harposporium anguillulae**, interaction with nematophagous fungi 1468
- Hartigia albomaculata**, attacking *Rubus fruticosus* 304
- Hazel**
Amphipyra pyramidea, parasites, in UK 1215

Hazel (contd.)

- Pealius quercus*, parasitised by
Encarsia asterobemisiae, in
 Italy 383
- Helicobia**, parasitising *Lapaemides
 dedalus* 1189
- Heliconius charithonius**, against
Passiflora mollissima, in Hawaii 1870
- Helicospodidium**
 infecting
Aedes aegypti 1805
Culex quinquefasciatus 1805
- Helicotylenchus digonicus**, preyed on
 by *Iotonchus* sp., in India 1176
- Helicotylenchus dihystra**, infected by
Bacillus penetrans, in South Africa
 1547
- Heliosibes atychioides**, controlled by
 natural enemies, in New Zealand
 1198
- Heliothis**
Bacillus thuringiensis against 1613
Baculovirus heliothis against 72
 biological control workshop 1652
 controlled by *Trichogramma* sp.
 1059
 in Australia 1059, 1643
 in Brazil 1613
 in USA 72, 130
 predators 130, 1643
- Heliothis armigera**
Bacillus thuringiensis against 596,
 1597, 1981
Bracon sp. against 595
Eucelatoria sp. against 1121, 1586
 GV against 581
 ichneumonid parasites 1957
 in Australia 568, 1108
 in China 603, 1641
 in Cyprus 612
 in India 608, 609, 1121, 1122, 1123,
 1492, 1585, 1586, 1597
 in South Africa 175, 1639
 in Thailand 1467
 in USSR 402, 581, 595, 596, 598,
 1957
 integrated control 175, 595, 603,
 1108
 NPV against 1641
 properties 2040
 parasitised by
Apanteles kazak 598
Telenomus sp. 1639
Trichogramma chilonis 1123
Trichogramma meyeri 402
Trichogramma pretiosum 1639
Trichogramma spp. 1585
Trichogrammatoidea lutea 1639
 susceptibility to
Bacillus thuringiensis 1110, 1645
 NPV 1110
Trichogramma spp. against 595,
 1492, 1637
- Heliothis nubigera**, parasites, in Cyprus
 612
- Heliothis peltigera**, parasites, in Cyprus
 612
- Heliothis punctigera**
 in Australia 568, 1091, 1120
 infected by NPV 1120
 preyed on by
Nabis tasmanicus 1120
Oechalia schellebergii 1120
Trichogramma ivelae against 1019
- Heliothis subflexa**
 natural enemies
 in Colombia 594
 in Thailand 1467
- Heliothis tergeminata**, natural enemies,
 in Colombia 594
- Heliothis virescens**
 host for *Vairimorpha necatrix*,
 effect of methoprene 365
 in Cuba 469, 1647
 in Colombia 594
 in Peru 1943
 in USA 89, 131, 136, 463, 1488,
 1642
 infected by
Bacillus thuringiensis, bioassay
 868
Neoplectana carpocapsae 1994
 NPV, effect of methoprene
 1918
Vairimorpha necatrix 1506
 parasitised by
Campoletis sonorensis 462, 463
Cardiochiles nigriceps 462, 594
Chelonus insularis 462, 1483
Diadegma sp. 469, 1647
Eucelatoria sp. 1488
Microplitis croceipes 462
Telenomus heliothis 1483
Trichogramma perkinsi 1943
Trichogramma pretiosum 131,
 136, 1483
 preyed on by
Acanthepeira stellata 1642
Aysa gracilis 1642
Cheiracanthium inclusum 1642
Chrysopa spp. 1642
Geocoris punctipes 89, 1642
Misumenops spp. 1642
Orius insidiosus 89, 1642
Oxyopes salticus 1642
Phidippus audax 1642
Solenopsis invicta 1642
- Heliothis viriplaca**
 in USSR 61
 parasitised by
Apanteles spp. 61
Barylypa sp. 61
Delta dimidiatipennis 61
Exorista spp. 61
Muscina spp. 61
Rogas spp. 61
Sarcophaga sp. 61
Zelex chlorophthalma 61
 preyed on by *Vespa* sp. 61
- Heliothis zea**
 in Colombia 594
 in Guadeloupe 1554
 in Peru 1943
 in USA 73, 89, 1062, 1415, 1531,
 1922
 infected by *Vairimorpha necatrix*
 1506
 NPV
 bioassay technique 870
 properties 2040
 parasitised by
Apanteles marginiventris
 1062
Metagonistylum minense 1554
Trichogramma perkinsi 1943
Trichogramma pretiosum 1494,
 1922
Trichogramma spp., effect of
 weeds 1531
- predators 89
 precipitin test 1058
Trichogramma spp. against 1415,
 1922
- Heliotropium europaeum**
 attacked by
Longitarsus albineus 1863
Pachycerus madidus 1862
 in Australia 39, 821, 1862
Longitarsus albineus against 1862
- Helisoma duryi**, controlling *Biomphalaria
 glabrata*, in St. Lucia 1311
- Helminthosporium**, inhibited by
Sphaeronaemella helvella 1471
- Helopeltis antonii**
 in Sri Lanka 1692
 parasitised by
Leiophron helopeltidis 1692
Trichogramma minutum 1692
 preyed on by
Crematogaster wroughtonii
 1692
Oecophylla spp. 1692
- Hemerobius**
 preying on
 apple pests, effect of food sprays
 158
Pristiphora erichsonii 707
- Hemerobius nitidulus**, against *Adelges
 piceae*, in Canada 708
- Hemerobius pacificus**
 preying on
Myzus persicae 570
Platyptilia carduidactyla 570
- Hemerobius stigma**
 against *Adelges piceae*, in Canada 708
 cold storage 367
- Hemiberlesia lataniae**
 in Israel 1502
 parasitised by
Aphytis diaspidis 1502
Hemisarcophaga coccophagus 1502
- Hemiberlesia rapax**, infected by *Nectria
 flammea* 1954
- Hemicheyletia bakeri**, preying on cotton
 mites 604
- Hemiculter leuciscus**, against mosquitoes,
 in USSR 729
- Hemileuca**, attacking *Quercus havardii*
 797
- Hemipteroseius indicus**, preying on
Dysdercus koenigii 138
- Hemipteroseius sabbaticus**, parasitising
Dysdercus spp. 1633
- Hemisarcophaga coccophagus**
 biology 1502
 parasitising *Hemiberlesia lataniae*
 1502
- Hemisarcophaga malus**
 preying on
Lepidosaphes ulmi 1668
 orchard pests 1669
- Hemiteles**, parasitising *Apanteles
 plutellae* 99
- Hemlock**
Fiorinia externa, parasitised by
Encarsia citrina, in USA 223
Tsugaspidotus tsugae, parasitised
 by *Encarsia citrina*, in USA 223
- Henosepilachna**, preying on *Rhopalosiphum
 maidis* 1962
- Hepatozoon**, infecting rodents, in UK 245
- Hepobdelloidea**, preying on *Culex
 quinquefasciatus* 1272

- Herpestomus wesmaeli*, parasitising *Argyresthia laevigatella* 1236
- Heterobasidion annosum**
culture technique for *Phlebia gigantea* 366
inhibited by *Bacillus* sp., in USA 1241
- Heterodera avenae**
infected by
Catenaria auxilaris, in UK 1655
fungi, in Poland 34
- Heterodera humuli**, infected by
Hirsutella heteroderae, in German Federal Republic 605
- Heterodera schachtii**
in Poland 34
in UK 1655
in USA 93
infected by
Acremonium strictum 93
Fusarium oxysporum 93
Nematophthora gynophila 1655
- Heterolaccus**, parasitising *Anthonomus grandis* 1105
- Heteronychus arator**
in New Zealand 41, 47, 50, 53, 552
in South Africa 51
infected by *Adelina* sp. 47
nematodes against 552
predators 41, 51, 53
preyed on by *Thyreopcephalus orthodoxus* 53
- Heterorhabditis**
against *Otiorynchus sulcatus*, in Netherlands 1097
infecting *Graphognathus leucomela* 1050
rearing technique 1405
- Heterorhabditis bacteriophora**
against pasture pests, in New Zealand 552
infecting *Scolytus multistriatus* 1209
rosette formation 1504
symbiotic bacteria 996
temperature requirements 1505
- Heterorhabditis heliothidis**
against
Otiorynchus sulcatus, in Australia 1098
pasture pests, in New Zealand 552
artificial diet 1913
infecting *Ceratitis capitata* 1160
symbiotic bacteria 996
- Heterotheca subaxillaris**, feeding site for predators 500
- Heterotylenchus crassirostris**
description 1438
infecting
Musca crassirostris 1438
Stomoxys calcitrans 1438
- Hexameris**
infecting
Diatraea saccharalis 3
Spodoptera frugiperda 1021
- Hexameris acridiorum**, infecting *Schistocerca cancellata* 1654
- Hexameris glossinae**, infecting *Glossina* spp., description 909
- Hexameris parastepposis**, against *Phytonomus* sp., in USSR 1572
- Hexameris truncata**, synonymy 1950
- Heydenia unica**
parasitising *Dendroctonus frontalis* 694, 1750
- response to odours 1201
- Hibiscus**
Aphis gossypii, preyed on by *Cryptolaemus montrouzieri*, in India 1758
- Hippeutis cantori**, preyed on by *Sepedon aenescens* 1313
- Hippodamia**, preying on soyabean pests, precipitin test 1058
- Hippodamia convergens**
artificial diets 1402
development model 505
effect of diflubenzuron 136
preying on
Acyrtosiphon spp. 64, 2050
Autographa biloba 1574
cotton pests 1106
Heliothis spp. 130
Hypera postica 1046
Rachiplusia ou 1574
sunflower pests 89
Therioaphis trifolii maculata 64
- Hippodamia tredecimpunctata**
artificial diet 360
preying on *Brachycaudus helichrysi* 567
- Hippodamia tredecimpunctata tibialis**, preying on *Rhopalosiphum maidis* 11
- Hippodamia variegata**
preying on
aphids, community groups 2060
Aphis gossypii 103
Brachycaudus helichrysi 567
Sitobion avenae 32
- Hirsutella heteroderae**, infecting *Heterodera humuli* 605
- Hirsutella thompsonii**
controlling *Retracrus elaeis*, in Colombia 1704
- infecting
Cecidophyopsis ribis 1627
Eriophyes guerreronis 1703
- Hodotermes mossambicus**, preyed on by *Megaponera foetens*, in Kenya 1653
- Holcocera pulvereae**
Apanteles tachardiae against, in India 1782
parasitised by *Bracon greeni* 725
preying on *Keria lacca* 725
- Hololena**, preying on citrus pests 644
- Holotrichia morosa**, susceptible to *Bacillus popilliae* 26
- Holotrichia oblita**, susceptible to *Bacillus popilliae* 26
- Homalodisca insolita**, parasitised by *Acmopolynema sema*, in USA 1941
- Homalotylus albiclavatus**, synonym 1935
- Homalotylus flaminus**, parasitising *Coccinella septempunctata* 1966
Exochomus spp. 87, 88
- Homoeosoma electellum**, predators, in USA 89
- Homona coffearia**, parasitised by *Apanteles hyposidrae*, in Taiwan 1958
- Homona magnanima**, infected by GV, in Japan 658
- Homotropus fissorius**, parasitising syrphids, behaviour 459
- Homotropus pictus**, parasitising syrphids, behaviour 459
- Homotropus tarsatorius**, parasitising syrphids, behaviour 459
- Honeylocust**
Diaphnocoris chlorionis, parasitised by *Leiophron maculipennis*, in Canada 226
- Hoplocampa testudinea**, fungi against, in Poland 624, 625
- Hops**
Heterodera humuli, infected by *Hirsutella heteroderae*, in German Federal Republic 605
- Phorodon humuli*
integrated control 142
preyed on by
Anthocoris nemorum, rearing technique 1911
Anthocoris spp., in UK 143, 144
Tetranychus urticae, integrated control 142
- Horismenus aeneicollis**, parasitising *Perileucoptera coffeella* 656
- Hormius**, parasitising *Orthaga euadrasalis* 1172
- Hornbeam**
Lymantria dispar, predators, in USSR 211
- Howardula husseyi**, infecting *Megaselia halterata*, mass production 1119
- Howardula marginatis**, infecting *Copromyza marginatis* 1831
- Howardula prima**, infecting *Ctenophthalmus teres*, description 769
- Howardula stenolobus**, infecting *Ctenophthalmus teres*, description 769
- Hungariella peregrina**, against *Pseudococcus longispinus*, in Israel 649, 1168
- Hungary**
aquatic weeds, *Ctenopharyngodon idella* against 329
Curculio elephas, natural enemies, 636
Orobanche ramosa, infected by *Fusarium* spp. 1885
- Hunterellus**, parasitising *Hyalomma anatolicum* 773
- Hunterellus hookeri**, parasitising *Ixodes ricinus* 771
- Hunterellus sagarensis**, parasitising *Haemaphysalis* spp. 772, 773
- Hyalomma anatolicum**, parasitised by *Hunterellus* spp., in India 773
- Hyalomyodes triangulifer**, parasitising *Glischrochilus fuscatus* 1631
- Hyblaea pueria**
in India 1213
parasitised by *Sturmia inconspicuellae* 1213
preyed on by *Chaenus rayotus* 1213
- Hybomitra**, pathogens, in USSR 765
- Hybomitra bimaculata**, parasitised by *Telenomus* spp., in Switzerland 1304
- Hydrellia griseola**, braconid parasites, in USSR 17
- Hydrellia philippina**, parasitised by *Chaenusa* sp., in India 1034
- Hydrilla verticillata**
attacked by
Nymphula rugosalis 1879
Paraponyx spp. 1356, 1357

***Hydrilla verticillata* (contd.)**

- Ctenopharyngodon idella* against 328, 1880, 1881
in Panama 1879
in USA 328, 1355, 1356, 1357, 1880, 1881
infected by *Fusarium roseum* 821, 827
Tilapia zillii against 1355
- Hydriris ornatalis***, attacking *Convulvulus arvensis* 801
- Hydrodictyon***, inhibiting aquatic weeds 1883
- Hydromermis amphidis***, infecting *Chironomus* spp., description 1436
- Hydromermis contorta***, infecting chironomids 754
- Hydromermis lanceicephala***, infecting *Chironomus* spp., description 1436
- Hydrotaea irritans***
in Irish Republic 281
preyed on by
Scathophaga stercoraria 281
Vespula vulgaris 281
- Hylobius abietis***
infected by *Nosema hylobii*, in German Federal Republic 911
pathogens, in Sweden 644
- Hylotripes bajulus***, parasitised by *Ycaploca evansi*, in South Africa 721
- Hymenia recurvalis***
attacking
Alternanthera philoxeroides 828
Amaranthus dubius 804
susceptible to *Paecilomyces farinosus* 1507
- Hymenonima extersaria***
in Brazil 1694
parasitised by
Apanteles sp. 1694
Euphorocera floridensis 1694
- Hypera brunneipennis***
in Egypt 1052
in USA 60
preyed on by
Geocoris spp. 60
Nabis spp. 60
Oritus sp. 60
- Hypera nigrirostris***, parasitised by *Diaparsis hyperae*, in Japan 377
- Hypera postica***
in Canada 55, 534, 1570, 1973
in Romania 533
in USA 56, 57, 535, 1045, 1046, 1047, 1487
infected by
Entomophthora sp. 534
Zoophthora phytonomi 55, 534, 535, 1047
integrated control 533
parasitised by
Microctonus aethiopoides 55, 1487
Patasson luna 1045, 1570
preyed on by
Abacidus permundus 57
Evarthrus sodalis 57
Gryllus pennsylvanicus 57
Harpalus pensylvanicus 57
suspected predators 1046
- Hypera punctata***, infected by *Zoophthora phytonomi*, in USA 56
- Hyperaspis***, preying on cotton pests 1106
- Hyperaspis mckenziei***, description 404
- Hyperaspis pumila***, preying on
Phenacoccus manihoti 557, 1069
- Hyperaspis querquesi***, description 404
- Hyperaspis senegalensis***, preying on
Phenacoccus manihoti 87, 88
- Hyperbatus marmoratus***, parasitising
Pikonema alaskensis, description 1419
- Hypericum perforatum***
attacked by
Aristotelia morpochroma 1862
Phyllocoptes hyperici 1862
Chrysolina spp. against 1862
in Australia 786, 821, 1862
insects against, in Canada 924, 926, 1973
- Hyphantria cunea***
Bacillus thuringiensis against 1192, 1721, 1981
baculovirus against 190
in Bulgaria 1192
in Romania 684
in USA 190
in USSR 1721, 1974, 1981
infected by GV 684
parasitised by *Pimpla turionellae*, effect of food plant 1723
- Hypharphax***, infected by *Cordyceps aphodii*, in Australia 49
- Hypoderma bovis***, susceptible to
Bacillus thuringiensis 1832
- Hypogeococcus festerianus***, controlling
Eriocerus martinii, in Australia 787, 821
- Hypolixus nubilosus***, attacking
Amaranthus caudatus, biology 805
- Hypophthalmichthys molitrix***
against
Phragmites australis, in USSR 1352
phytoplankton, in Israel 835
attacking *Microcystis* spp. 1354
- Hyposinga***, preying on mosquitoes 1786
- Hyposter didymator***
parasitising
Agrotis segetum 1957
Spodoptera littoralis 612
- Hyposter ebeninus***
parasitising
Artogeia rapae 95
Pieris brassicae 95
- Hypoater exiguae***
biology, effect of temperature 1997
parasitising *Mythimna unipuncta*
interaction with *Neoplectana carpocapsae* 2073
- Hyposter niger***, parasitising *Ormiscodes rufosignata* 451
- Hypothenemus hampei***, in West Malaysia 654
- Hypurus bertrandi***, attacking *Portulaca oleracea*, biology 810
- Ibalia leucospoides***, parasitising
Sirex noctilio 1195
- Icerya purchasi***
preyed on by *Cardiastethus nazareus* 991, 992
Rodolia cardinalis against 426
- Ichneumon***, parasitising *Mythimna separata* 528
- Ichneumon sarcitorius***, parasitising
Heliothis armigera 1957
- Ichneumonidae***
from
Finland 914
Sweden 1955

Imosermis morosovi infecting
Xenopsylla gerbilli minax, description 1437

Inachis io, infected by *Fusarium oxysporum orthoceras*, in USSR 1443

Incarnia, parasitising *Copitarsia turbata* 1621

India

Achaea janata, parasitised by
Trichogrammatoidea bactrae, in Karnataka 565

Acherontia styx, parasitised by
Trichogramma australicum 106

Acrocercops orthostacta, parasitised by *Paratrachogramma giraulti*, in Uttar Pradesh 400

***Agromyza* sp.**, parasitised by
Bracon sp., in Karnataka 1024

Alcidodes affaber, parasitised by
Goryphus sp., in Karnataka 137

Alternaria alternata, inhibited by
Streptomyces olivaceus 37

***Alternaria* spp.**, inhibited by
Streptomyces rochei 563, 1593

Amrasca biguttula biguttula, spider predators, in Andhra Pradesh 1112

Amsacta moorei
infected by NPV 520
parasites, in Uttar Pradesh 1067

Anomalococcus crematogastri, parasitised by *Syntomosphyrum anomalococci*, in Tamil Nadu 389

Anomis sabulifera, infected by NPV, in Maharashtra 1113

aphids, natural enemies, 927, 1962, 1963

Aphis craccivora
parasitised by *Trioxys indicus*, in West Bengal 1596
predators, in Assam 1064
preyed on by *Motacilla* spp. 83

Aphis gossypii
parasites, in Kerala 561
preyed on by *Cryptolaemus montrouzieri*, in Karnataka 1758

Bemisia tabaci, parasitised by
Prospaltella flava, in Kerala 1590
biological control research 1984

Bissetia stenella, parasites against, in Punjab 4
cassava pests, natural enemies 1588, 1591

Ceratostenes marchali, parasitised by
Apocrypta bakeri 472

***Cerococcus* sp.**, parasitised by
Cephaleta hayati 1422

Chilo infuscatellus
parasites against, in Punjab 4
parasitised by *Sturmiaopsis inferens* 1016, 1017

Chilo partellus
integrated control 1020
parasitised by *Trichogramma chiloetraeae*, in Punjab 1556
preyed on by spiders 14

Chilo sacchariphagus indicus, infected by GV, in Tamil Nadu 1543

Chrysomphalus aonidum, controlled by natural enemies, in Assam 1182

Cnaphalocrocis medinalis, parasitised by *Trichogramma* sp., in Orissa 20

Coccus hesperidum, parasitised by
Aneristus ceroplastae 1178

India (contd.)

- Cofana spectra*, infected by *Penicillium oxalicum*, in Kerala 1035
- Copromyza marginatis*, infected by *Howardula marginatis*, in Andhra Pradesh 1831
- Corcyra cephalonica*, *Chelonus blackburni* against 132
- Crocidolomia binotalis*, parasites, in Madhya Pradesh 90
- Cydia ptychora*, parasites, in Karnataka 86
- Dioryctria* spp., parasites 702
- Dirhinus* spp., taxonomy 899
- dung beetles 298
- Dysdercus koenigii*, preyed on by *Hemipteroseius indicus*, in West Bengal 138
- Earias vittella*, *Chelonus blackburni* against 132
- Encyrtidae, taxonomy 1935, 1936
- Eupatorium adenophorum*, *Procecidochares utilis* against 1334
- Euproctis lunata*, tachinid parasites, in Punjab 1072, 1594
- ginger pests, parasites 141
- gram pests, preyed on by *Polistes olivaceus* 85
- Heliotylenchus digonicus*, preyed on by *Iotonchus* sp. 1176
- Heliothis armigera*
- Eucelatoria* sp. against 1121, 1586
- natural enemies, in Andhra Pradesh 608, 609, 1122, 1585
- parasitised by *Trichogramma chilonis*, in Gujarat 1123
- Holcocera pulvereae*, *Apanteles tachardiae* against, in Bihar 1782
- Hyblaea puera*, preyed on by *Chaenus rayotus*, in Kerala 1213
- Hydrellia philippina*, parasitised by *Chaenusa* sp. 1034
- insect pests, parasites, in Andhra Pradesh 1964
- jute pests, natural enemies, in West Bengal 1114
- Kerria lacca*, predators, parasitised by *Bracon greeni* 725
- Lipaphis erysimi*
- parasitised by *Diaeretiella rapae*, effect of insecticides 1071
- predators, in West Bengal 1596
- preyed on by *Coccinella septempunctata*, effect of insecticides 564
- Ludwigia parviflora*, attacked by *Altica cyanea* 323
- Macrophomina phaseolina*, antagonists 84
- Macrosiphum rosae*, parasites, in West Bengal 1757
- mango pests, natural enemies, in Uttar Pradesh 1172, 1173
- mosquitoes
- controlled by *Gambusia affinis* 1267
- infected by
- Bacillus thuringiensis* 1278
- Lankesteria* spp. 773
- pathogen production 259, 260
- preyed on by
- Herpobdelloidea* sp., in Kerala 1272
- Rhodothemis rufa* 1271

India (contd.)

- susceptibility to *Metarhizium anisopliae* 1797
- Musca crassirostris*, infected by *Heterotylenchus crassirostris*, in Andhra Pradesh 1438
- Musca domestica*, parasitised by *Microtrombidium* sp., in Uttar Pradesh 1829
- Mycosphaerella* spp., inhibited by *Hansfordia pulvinata* 554
- Mythimna separata*, parasites, in Uttar Pradesh 528
- Myzus persicae*, predators, in Andhra Pradesh 1648
- Nilaparvata lugens*
- parasitised by *Haplogonotopus* sp., in Andhra Pradesh 1029
- preyed on by
- Microvelia* sp., in Orissa 1558
- Solenopsis geminata*, in Kerala 24
- Nymphula depunctalis*, infected by NPV 1032
- Opisina arenosella*, parasites 1185, 1186
- Oryctes rhinoceros*, infected by *Acinetobacter calcoaceticus* 1184
- Parasaissetia nigra*, parasitised by *Scutellista cyanea*, in Maharashtra 1179
- Parotis vertumalis*, parasitised by *Pentalitomastix nacoletiae*, in Kerala 1118
- Pectinophora gossypiella*
- integrated control, in Haryana 1635
- preyed on by *Pyemotes ventricosus*, in Punjab 1634
- Pentalonia nigronervosa*, predators 1650
- Pestalotiopsis funerea*, antagonists 1219
- Phthorimaea operculella*, *Copidosoma koehleri* against 1619
- Phyllactinia dalbergiae*, inhibited by *Cladosporium spongiosum* 693
- Phytophthora colocasiae*, antagonists 1592
- Pinaspis aspidistrae*, parasites, in Andhra Pradesh 640
- plant protection, in plantation crops 1995
- Plutella xylostella*, *Bacillus thuringiensis* against 1078
- Prospalta capensis*, natural enemies 1595
- Pyrilla perpusilla*, controlled by parasites, in Haryana 1564
- Pyrilla* sp., parasitised by *Syntomosphyrum udaipurensis*, in Rajasthan 389
- Rattus rattus*, infected by *Syphacia stroma*, in Haryana 1257
- rodents, nematode parasites 1259
- Saissetia miranda*, parasites, in Tamil Nadu 1733
- Sciurus palmarum*, infected by *Syphacia stroma*, in Haryana 1257
- Scurrula cordifolia*, parasitised by *Viscum loranthei* 1365
- Sitobion rosaeiformis*, parasites, in West Bengal 1757

India (contd.)

- Spodoptera litura*
- natural enemies, in Andhra Pradesh 1648
- NPV against 574, 606
- Stomoxys calcitrans*, infected by *Heterotylenchus crassirostris*, in Andhra Pradesh 1438
- Sylepta derogata*, parasites, in Punjab 597
- Syrphidae, insect prey 921
- tea mites, predators 1698
- ticks, parasitised by *Hunterellus* spp. 773
- Tribulus terrestris*, natural enemies 821
- turmeric pests, parasites 141
- vegetable pests, *Bacillus thuringiensis* against, in Karnataka 1597
- Testraticus* spp., descriptions 1939
- Indonesia
- Eichhornia crassipes*, biological control 1358, 1875
- mosquitoes, *Bacillus thuringiensis israelensis* against 1283
- pest control book 1985
- Striga asiatica*, attacked by *Precis orithya minagara*, in Java 836
- Inopus rubriceps*
- in New Zealand 1578
- preyed on by
- Agrypnus variabilis* 1578
- Conoderus exsul* 1578
- Rhytisternus miser* 1578
- Thyrecephalus orthodoxus* 1578
- Inonotus weirii*, inhibited by *Bacillus* sp., in USA 1241
- Inostemma seoulis*, parasitising *Thecodiplosis japonensis* 218
- Insektin
- against
- Heliothis armigera*, in USSR 596
- Tortrix viridana*, in USSR 709
- Insulaspis gloverii*, infected by *Verticillium* sp. 1680
- Insulaspis tapleyi*, parasitised by *Encarsia citrina*, in Egypt 711
- Invreia deceptor*
- description 1424
- parasitising *Elasmopalpus lignosellus* 1424, 1579
- Invreia threa*, parasitising *Stegasta basqueella*, description 1424
- Invreia usta*, parasitising *Elasmopalpus lignosellus*, description 1424
- Iotonchus*, preying on *Helicotylenchus digonicus* 1176
- Ipomoea*, attacked by *Euptoieta hegesia*, in Colombia 804
- Ipomoea pandurata*, protected from enemies, in USA 802
- Ips cembrae*, parasitised by *Roptrocerus barbatus*, in Japan 902
- Ips sexdentatus*
- in France 1222, 1752
- infected by
- Contortylenchus diplogaster* 1222, 1752
- Parasitaphelenchus sexdentati* 1222
- Ips typographus*
- in Norway 699
- in Sweden 664
- pathogens 664
- preyed on by *Thanasimus* spp., attractants 699

- Ips typographus japonicus*, parasitised by *Tomicobia watanabei*, in Japan 902
- Iran**
Leucoma wiltshirei, natural enemies 675
Locusta migratoria, parasitised by *Scelio* sp. 1541
Phytoseiidae 425
Sesamia spp., parasitised by *Telenomus* sp. 1541
- Iraq**
Batrachedra amydraula, parasitised by *Phanerotoma* sp. 1472
clover pests, insect predators 601
cotton pests, insect predators 601
Euproctis melania, parasitised by *Apanteles* sp. 678
Ocnogyna loewii, natural enemies 611, 1575
Pseudophilus testaceus, infected by *Beauveria bassiana* 660
Sycophila spp., descriptions 901
Iridomyrmex pruinosus, preyed on by *Microdon fuscipennis*, in USA 2019
- Irish Republic**
Hydrotaea irritans, predators 281
- Ischiodon scutellaris*
biology 984
preying on *Pentalonia nigronervosa* 1650
- Ischnoceros*, keys, in UK 1417
- Ischnus inquisitorius*, parasitising *Archips* spp. 1956
- Isocolus*, parasitised by *Sycophila emarginata*, in Iraq 901
- Isodromus puncticeps*, parasitising chrysopids 179, 648
- Isomeris lairdi*, infecting *Simulium damnosum* 1288
- Isomeris vulvachila*, infecting *Cnephia pacheco-lunai*, description 1435
- Israel**
Acaudaleyrodes citri, parasitised by *Encarsia davidi* 383
Acrosternum millieri, parasitised by *Gryon terraesanctae* 396
Aleurolobus niloticus, parasitised by *Encarsia davidi* 383
Aphis umbrellae, infected by *Erynia nouryi* 413
Asilidae 1455
avocado pests, biological control 1168
Boarmia selenaria, natural enemies 184, 650
Ceroplastes floridensis, mortality factors 637
Coccus hesperidum, hyperparasites 965, 968
Entomophthorales 922
Fusarium oxysporum dianthi, inhibited by *Arthrobacter* sp. 230
Hemiberlesia lataniae, parasitised by *Hemisarcophaga coccophagus* 1502
Pseudococcus longispinus, integrated control 649
reservoir pests, controlled by fish 835
Rhizoctonia solani, controlled by *Trichoderma harzianum* 585, 1246
- Spodoptera littoralis*, preyed on by spiders 151, 152
- Italy**
Aphis spp., parasitised by *Lysiphlebus fabarum* 1002
Archips rosanus, controlled by *Bacillus thuringiensis* 1158
Calcoris trivialis, controlled by egg parasites 972
Carduus macrocephalus, attacked by weevils 1849
Carduus spp., attacked by *Ceutorhynchus trimaculatus* 1322, 1323
citrus mites, natural enemies 176
Coccus hesperidum, parasitised by *Coccophagus matsuyamensis* 382
Convolvulus arvensis, attacked by *Galeruca rufa* 308
Coreus marginatus, parasitised by *Gryon bosellii* 396
Corythuca ciliata, infected by *Beauveria bassiana* 1738
Dacus oleae, controlled by *Opius concolor* 1165
Dialeurodes citri, *Encarsia lahorensis* against 168
Diprion similis, mortality factors 1224
Endothia parasitica, controlled by *Trichoderma viride* 1739
Gonocerus acuteangulatus, parasitised by *Gryon bosellii* 396
grapevine mite fauna 1630
integrated pest control 1369
Lymantria dispar, infected by *Baculovirus* sp. 1725, 1726
mosquitoes, infected by *Fusarium oxysporum* 741
Ochromolopis staintoniella, braconid parasites 1687
olive pests, integrated control 1167, 1688
peach mites, preyed on by *Coniopteryx esbenpeterseni* 632
Pealius quercus, parasitised by *Encarsia asterobemisiae* 383
pear pests, integrated control 164
Planococcus citri, *Leptomastix dactylopii* against 168
Prays citri, *Bacillus thuringiensis* against 170
Priophorus ulmi, parasites 1736
Pseudaulacaspis pentagona, parasitised by *Encarsia berlesiei* 1101
Psylla pyri, preyed on by *Anthocoris nemoralis* 1666
Saissetia oleae
integrated control 1162
Metaphycus bartlettii against 181
parasites 1682, 1683, 1684
Siphoninus phillyreae, parasitised by *Encarsia* spp. 384
Thaumetopoea pityocampa, parasite competition 1744
Parus spp. against 1746
Toxoptera aurantii, parasitised by *Lysiphlebus* spp. 174
Trialeurodes vaporariorum
Encarsia pergandiella against 118
integrated control 1759
Itopectis behrensii, parasitising *Phryganidia californica*, functional response 680
- Itopectis maculator*
fertilisation of egg 457
parasitising *Epichoristodes acerbella* 1245
- Itopectis naranyae*, parasitising *Cnaphalocrocis medinalis* 527
- Itopectis tunetana*, parasitising fruit pests 1957
- Iva xanthifolia*, attacked by *Smicronyx commixtus*, in USA 813
- Ivory Coast**
Coelaenomenodera elaeidis, *Chrysonotomyia* sp. against 662
- Ixodes ricinus*, parasitised by *Hunterellus hookeri*, in German Federal Republic 771
- Jalysus spinosus*, collection and storage 1649
- Jamaica**
Cyperus rotundus, attacked by *Sanctanus fasciatus* 311
- Japan**
Aphytis spp. 1447
Archips semistructus, parasites 1124
Artogeia rapae crucivora, parasitised by *Apanteles glomeratus* 958
bark beetles, pteromalid parasites 902
Biorhiza weldi, parasitised by *Torymus ringofushi* 398
Braconidae 916
Cnaphalocrocis medinalis, parasites 527
Colopha morioakaensis, preyed on by *Passer montanus* 210
Dryocosmus kuriphilus, parasitised by *Torymus* spp. 686, 1210
Eutrichosiphum pasaniae, parasitised by *Trioxys eutrichosiphi* 380
forest pests, preyed on by *Parus major* 1191
Haemaphysalis spp., parasitised by *Hunterellus sagarensis* 772
Homona magnanima, infected by GV 658
Hypera nigrirostris, parasitised by *Diaparsis hyperae* 377
Ichneumonidae, new host records 1446
Leucoma candida
parasitised by *Carcelia* sp. 1453
preyed on by *Passer montanus* 1205
Lymantria dispar, bird predators, 204
Mamestra brassicae, infected by *Entomophthora grylli* 2036
Masakimyia pustulae, parasitised by *Chrysoschalis sunosei* 390
Neodiprion sertifer, mortality factors 1225
Neuroterus sp., parasitised by *Lissotorymus laevigatus* 398
Papilio xuthus
natural enemies 1216
Pteromalus puparum against, dispersal 642
Pythium spp., inhibited by *Verticillium sphaerosporum* 1099
Rabdopaga spp., parasitised by *Platygaster* spp. 395

Japan (contd.)

- Rumex obtusifolia*, attacked by *Gastrophysa atrocynea* 812
- Solidago altissima*, attacked by *Ctenoplusia albostrata* 456
- Stegobium paniceum*, parasitised by *Cephalonomia gallicola* 720
- Tetraneura* sp., preyed on *Passer montanus* 210
- Trialerurodes vaporariorum*
- Encarsia formosa* against 1085
- native parasites 1614
- Unaspis yanonensis*, integrated control 1153
- Jasminis**
- Lindingaspis rossi*, parasitised by *Habrolepis* sp., in Egypt 710
- Jenkinshelea niphanae*, preying on chironomids, description 1427
- Jenkinshelea setosiforceps*, preying on chironomids, description 1427
- Jenkinshelea tokunagai*, preying on chironomids, description, 1427
- Jujube**
- Aleurolobus niloticus*, parasitised by *Encarsia davidi*, in Israel 383
- Juncus**, controlled by goats, in New Zealand 551
- Junipers**
- Carulaspis* spp., preyed on by *Aleuropteryx juniperi*, in USA 1247
- Jute**
- Anomis sabulifera*, infected by NPV, in India 1113
- arthropod pests, natural enemies, in India 1114
- Kalodiplosis coccidarum*, preying on *Phenacoccus manihoti* 1068
- Kenaf**
- Amrasca biguttula biguttula*, spider predators, in India 1112
- Kenya**
- Gonometia podocarpi*, infected by NPV 1749
- termites, preyed on by *Megaponera foetens* 1653
- Kerria lacca**
- Holcocera pulvereae*, *Apanteles tachardiae* against, in India 1782
- predators, parasitised by *Bracon greeni*, in India 725
- Korea**
- Aphelinidae 446
- Coccinellidae 422
- Dendrolimus spectabilis*, preyed on by *Formica yessensis* 215
- Diptera, distribution 1459
- Encyrtidae 446
- Eulophidae 446
- Hymenoptera, distribution 1459
- Nephotettix cincticeps*, egg parasites 1557
- Ostrinia furnacalis*, parasites 1553
- Thecodiplosis japonensis*, natural enemies 218
- Labidura riparia**
- preying on
- Leucoma candida* 1205
- Musca sorbens* 1303
- Trichoplusia ni* 1606, 1607
- Lacanobia suasa**, infected by NPV, in Romania 913
- Laelius pedatus**, parasitising *Anthrenus verbasci*, biology 1497
- Lambdina fiscellaria**, controlled by *Entomophthora* spp., in Canada 1238
- Lambdina pellucidaria**, parasitised by *Ooencyrtus ennomophagus*, rearing technique 1411
- Lanceimermis gastrolonga**, infecting *Chironomus* spp., description 1436
- Lankesteria**, infecting mosquitoes 773
- Lantana camara**
- attacked by *Mcgregorella depicta* in Brazil 793
- biological control
- in Australia 39, 787
- in Thailand 1467
- Lanugo retentor**, biology 1999
- Laodelphax striatella**
- in Taiwan 524
- parasitised by
- Anagrus optabilis* 524
- Oligosita* sp. 524
- Lapaemides dedalus**
- in Peru 1189, 1705
- parasitised by
- Helicobia* sp. 1189
- Ooencyrtus* sp. 1189, 1705
- Oxysarcodexia conclausa* 1189
- Larches**
- Argyresthia laevigatella*, parasites, in Finland 1236
- Cephalcia lariciphila*, infected by *Neoplectana carpocapsae*, in UK 1237
- Coleophora laricella*, parasites against, in North America 212, 1742, 1743
- Pristiphora erichsonii*
- natural enemies, in Canada 707
- Pleistophora schubergi* against, in Canada 217
- Larinus bardus**, attacking *Acroptilon repens* 790
- Larinus jaceae**, attacking *Acroptilon repens* 790
- Lasioderma serricorne**
- parasites, in India 141
- preyed on by *Acaropsellina* spp. 717, 718
- Latoia consocia**, infected by GV, in China 666
- Latrodectus mactans**
- in Puerto Rico 775
- parasitised by
- Desantisca* sp. 775
- Mimogaurax lancifer* 775
- Laurels**
- Insulaspis tapleyi*, parasitised by *Encarsia citrina*, in Egypt 711
- Lebia atriventris**, alternate feeding site 500
- Lebia concinna**, parasitising soyabean pests 75
- Leiophron**, parasitising mirids 416
- Leiophron helopeltidis**, parasitising *Helopeltis antonii* 1692
- Leiophron maculipennis**, parasitising *Diaphnocoris chlorionis* 226
- Leiophron uniformis**, parasitising *Lygus hesperus*, biology 1481
- Lema**, parasites, in India 141
- Lema trivittata**, attacking *Datura stramonium* 808
- Lemmus lemmus**, infected by heminths in Norway 1779
- Lemna**, attacked by hybrid carp. 833
- Lemna gibba**, infected by *Pythium aphanidermatum* 1362
- Lemna obscura** infected by *Pythium aphanidermatum* 1362
- Lemna perpusilla**, infected by *Pythium aphanidermatum* 1362
- Lemna valdiviana**, infected by *Pythium aphanidermatum* 1362
- Lemnia biplagiata**, preying on *Aphis craccivora* 1064
- Leperisinus californicus**
- in USA 682
- parasitised by
- Cheirpachus quadrum* 682
- Pteromalus* sp. 682
- Spathius benefactor* 682
- Leperisinus fraxini**, infected by *Ophryocystis hylesini*, in German Federal Republic 411
- Leperisinus oregonus**
- in USA 682
- parasitised by
- Cheirpachus quadrum* 682
- Eurytoma* sp. 682
- Pteromalus* sp. 682
- Spathius benefactor* 682
- Lepidosaphes beekii**
- Aphytis lepidosaphes* against 171
- in Egypt 638
- in New Caledonia 1675
- in Spain 171
- parasites, effect of pesticides 1472
- parasitised by
- Aphytis cochereaui* 1675
- Aphytis lepidosaphes* 1675
- Encarsia lounsburyi* 1675
- predatory mites 638
- preyed on by *Cardiastethus nazarensis* 991, 992
- Lepidosaphes ulmi**, preyed on by *Hemisarcophaga malus*, in Bulgaria 1668
- Lepthyphantes**, preying on *Lymantria dispar* 670
- Leptinotarsa decemlineata**
- Beauveria bassiana* against 113, 1409
- in Czechoslovakia 112
- in France 110, 113
- in USSR 110, 111, 1093, 1974
- parasitised by *Doryphorophaga doryphorae*, density-dependent model 2061
- Perillus bioculatus* against, in Europe, review 578
- preyed on by
- Brosicus cephalotes* 1093
- Harpalus rufipes* 1093
- Perillus bioculatus* effect of insecticides 579
- Podisus maculiventris* 111
- Pterostichus* spp. 1093
- susceptible to *Nosema equestris* 112
- Leptinotarsa undecimlineata** parasitised by *Edovum puttleri*, in Colombia 1940
- Leptocoris acuta**
- susceptible to
- Penicillium oxalicum* 1031
- Syncephalastrum racemosum* 1031
- Leptocoris oratorius**
- parasitised by *Gryon flavipes*, in Philippines 1562

- preyed on by *Conocephalus* spp., in Papua New Guinea 21
- Leptomastix dactylopii**
against
Planococcus citri
in Cyprus 1673
in Italy 168
in Spain 1161
soft scales, in USSR 709
effect of pesticides 341
- Leptothrips mali**
preying on
Aculus schlechtendali 1140
Panonychus ulmi 160
- Leptus**, parasitising *Dysdercus* spp. 1633
- Leskia aurea**, parasitising *Conopia myopaeformis* 156
- Lespesia**, parasitising *Spodoptera frugiperda* 518
- Lespesia archippivora**, parasitising *Spodoptera frugiperda* 1021, 1554
- Lespesia protoginoli**, parasitising *Papilio thoas thoantiades* 1157
- Lestodiplosus**, preying on *Cryptococcus fagisuga* 208
- Leucauge decorata**, preying on *Chilo partellus* 14
- Leucinodes orbonalis**, *Bacillus thuringiensis* against, in India 1597
- Leucoma candida**
in Japan 1205, 1453
parasitised by *Carcelia* sp. 1453
preyed on by *Passer montanus* 1205
- Leucoma salicis**
Bacillus thuringiensis against, in Bulgaria 1192
infected by viruses, in China 666
parasitised by *Telenomus nitidulus*, in Romania 195
- Leucoma wiltshirei**
Bacillus thuringiensis against 675
in Iran 675
natural enemies 675
- Leucopis caucasica**
preying on
Diuraphis noxia 31
Schizaphis graminum 31
- Leucopis glyphiniivora**
preying on
Diuraphis noxia 31
Schizaphis graminum 31
- Leucopis nigraluna**, against *Pineus pini*, in Hawaii 1466
- Leucopis ninae**
preying on
Diuraphis noxia 31
Schizaphis graminum 31
- Leucopis obscura**, against *Pineus pini*, in Hawaii 1466
- Leucopis ocellaris**, preying on *Pseudococcus comstocki* 1143
- Leucopis pallidolineata**
preying on
Diuraphis noxia 31
Schizaphis graminum 31
- Leucoptera spartifoliella**, against *Cytisus scoparius*, in USA 305
- Leurinion primum**, parasitising *Bucculatrix thurberiella* 1644, 1926
- Libellula axilena**, preying on *Solenopsis invicta* 1308
- Lichnoptera gulo**, control methods, in Colombia 1711
- Limatus durhamii**, susceptibility to *Bacillus thuringiensis israelensis* 1282
- Limatus flavisetosus**, susceptibility to *Bacillus thuringiensis israelensis* 1282
- Limnobium stoloniferum**, attacked by *Ochetina bruchi*, in Argentina 1877
- Limnogeton fieberi**, preying on mosquitoes 1839
- Limnogonus cereiventris leptocerus**, preying on mosquitoes 1839
- Limnomermis** infecting *Tanytarsus* sp. 1822
- Lindingaspis rossi**, parasitised by *Habrolepis* sp., in Egypt 710
- Lioplas elliptica**, against *Baccharis halimifolia*, in Australia 787
- Liothrips oleae**, natural enemies, in Italy 1688
- Lipaphis erysimi**
in India 1071, 1596
in Philippines 984
parasitised by *Diaeretiella rapae* 1071
preyed on by
Aspidolopha sp. 1596
Bilia castanea 1596
Chrysopa sp. 1596
Coccinella septempunctata 564
Ischiodon scutellaris 984
Micraspis discolor 1596
Orius albidipennis 1596
- Liriomyza bryoniae**
Dacus sibirica against 444
in Netherlands 444
in Sweden 1760
Opius pallipes against 444
- Liriomyza huidobrensis**, parasites, in Peru 1618
- Liriomyza sativae**, in USA 1075
- Liriomyza trifolii**
in Sweden 1760
in USA 1075
parasitised by
Chrysocharis spp. 1075
Chrysonotomyia spp. 1075
Diglyphus spp. 1075
Halticoptera spp. 1075
- Lissorhoptrus brevirostris**
Beauveria bassiana against 529
in Cuba 529
Metarhizium anisopliae against 529
- Lissotorymus laevigatus**, parasitising *Neuroterus* sp. 398
- Listronotus setosipennis**, attacking *Parthenium hysterophorus* 787
- Litodactylus leucogaster**, attacking *Myriophyllum spicatum* 1882
- Litomastix truncatella**
parasitising
Autographa biloba 1574
Rachiplusia ou 1574
soyabean pests 75
Trichoplusia ni 1638
- Lixophaga**, parasitising *Ostrinia nubilalis* 516
- Lixophaga diatraeae**
against
Diatraea saccharalis
in Barbados 1
in Brazil 1533
in USA 512
Diatraea spp., in Trinidad 1532
fatty acids 980
- Lixophaga mediocris**, parasitising *Rhyacionia frustrana* 214
- Lixus cribricollis**, against *Emex* spp., in Australia 1332, 1862
- Liza ramada**, against organic detritus, in Israel 835
- Lobesia botrana**, *Bacillus thuringiensis* against, in Switzerland 588
- Locusta migratoria migratoria**, parasitised by *Scelio* sp., in Iran 1541
- Lomamyia latipennis**, preying on *Reticulitermes hesperus* 498
- Lonchaea corticis**, preying on *Pissodes strobi* 222
- Longitarsus aeneus**, against *Echium plantagineum*, in Australia 1862
- Longitarsus albineus**
against *Heliotropium europaeum*, in Australia 1862
biology 1863
- Longitarsus ballotae**, attacking *Marrubium vulgare* 1862
- Longitarsus echii**, against *Echium plantagineum*, in Australia 1862
- Longitarsus jacobaeae**
against *Senecio jacobaeae*
in Australia 818, 821, 1862
in USA 1333
- Longitarsus pellucidus**, attacking *Rumex* spp. 1862
- Lophyproctus luteator**, parasitising *Neodiprion sertifer*, searching behaviour 1226
- Lophytotoma analis**, attacking *Emex australis* 1330
- Lorriya formosa**, natural enemies, in Italy 176
- Loxostege sticticalis**
Bacillus thuringiensis against 545, 1981
in Bulgaria 545
in USSR 67, 544, 1981
parasitised by
Agrypus flexor 544
Clematis pullata 544
Exorista civilis 544
Meteorus chrysophthalmus 544
Phytodietus rufipes 544
Trichogramma euproctidis against 67
- Lucerne**
Acyrtosiphon kondoi
natural enemies
in Australia 1049, 1573
in New Zealand 52, 54, 1571
pest management, in Australia 44
Acyrtosiphon pisum
controlled by *Aphidius eadyi*, in New Zealand 538
parasites, in Cyprus 539
Acyrtosiphon spp.
infected by *Zoophthora* spp., in New Zealand 1571
preyed on by *Hippodamia convergens*, in USA 64
Agromyza frontella, parasites, in USA 1048
Agrotis spp., parasitised by *Spallanzania hebes*, in USSR 62
aphids, infected by *Entomophthora* spp., in Switzerland 65

Lucerne (contd.)

- Epinotia aporema*, pathogens, in Chile 537
- Fusarium* sp., inhibited by *Aphelenchus avenae* 66
- Graphognathus leucoloma*, infected by *Heterorhabditis* sp., in Australia 1050
- Heliothis virescens*, parasites, in USSR 61
- Hypera brunneipennis*, predators, in USA 60
- Hypera postica* infected by *Zoophthora phytonomi* in Canada 534 in USA 56, 535, 1047 parasitised by *Microctonus aethiopoides*, in Canada 55 *Patasson luna* in Canada 1570 in USA 1045 predators, in USA 57, 1046 *Loxostege sticticalis*, *Bacillus thuringiensis* against, in Bulgaria 545
- Phytonomus* sp., *Hexameris parastepposis* against, in USSR 1572
- Rhizoctonia solani*, inhibited by *Aphelenchus avenae* 66 selective insecticides, in Romania 533
- Sitona hispidulus*, predators, in USA 57
- Sitona humeralis*, natural enemies, in New Zealand 43, 536
- Sminthurus viridis*, controlled by *Neomolgus capillatus*, in Australia 1051
- Spodoptera littoralis*, parasites, in Cyprus 612
- Spodoptera praefica*, predators, in USA 60
- Therioaphis trifolii* natural enemies, in Australia 1049, 1573 parasites, in Greece 539
- Therioaphis trifolii maculata* pest management, in Australia 44 preyed on by *Hippodamia convergens*, in USA 64
- Lucilia cuprina*, natural enemies against in Australia 1263
- Ludwigia octovalvis*, attacked by *Altica foveicollis*, in Bangladesh 322
- Ludwigia parviflora*, attacked by *Altica cyanea*, in India 323
- Ludwigia peploides*, attacked by *Ochetina bruchi*, in Argentina 1877
- Lupatarsonemus* preying on *Colomerus novaehbridensis* 1703 *Eriophyes guerreronis* 1703
- Lutzomyia longipalpis*, susceptible to *Bacillus thuringiensis israelensis* 1821
- Lycorina spilonotae*, parasitising *Spilonota lechriaspis*, description 1420
- Lycosa*, preying on cotton pests 602
- Lycosa scutulata*, preying on mosquitoes 1786
- Lydella thompsoni* against *Ostrinia nubilalis* in Canada 1018 in USA 1551 parasitising *Archanara geminipuncta* 1552
- Lygocoris lucorum*, integrated control, in China 603
- Lygus*, integrated control, in Romania 533
- Lygus hesperus* parasitised by *Leiophron uniformis* 1481 preyed on by *Nabis* spp., in USA 60
- Lygus lineolaris*, insects against, in Canada 925, 926, 1971
- Lymantria dispar* - *Bacillus thuringiensis* against 194, 673, 1132, 1725 in Bulgaria 669 in Canada 925, 1203, 1724, 1973 in China 666 in Italy 1725, 1726 in Japan 204 in Poland 1132 in Romania 195 in USA 202, 667, 668, 671, 674, 1202, 1727 in USSR 194, 211, 670, 672, 673, 676, 1728, 1982 in Yugoslavia 203 infected by *Nosema* spp. 672 NPV 203, 666, 1514, 1725, 1726, 1727 *Pleistophora schubergi* 672 *Reovirus* sp. 1982 *Thelohania disparis* 672 natural enemies against 925, 1973 NPV against 674, 1728 NPV production 1917 effect of artificial diet 1410 quality control 871 parasites effect of diflubenzuron 1203 keys 201 parasitised by *Anastatus japonicus* 669 *Apanteles melanoscelus* 1724 *Apanteles* spp. 203 *Brachymeria intermedia* 1723 *Brachymeria lasus* 202 *Compsilura concinnata* 1724 *Gryon* spp. 195 *Ooencyrtus kuvanae* 1202 *Pimpla disparis* 202 *Pimpla turionellae* 1723 *Telenomus* spp. 195 predators 211 preyed on by *Bdella* sp. 670 *Chrysopa* sp. 670 *Formica pratensis* 670 *Lepthyphantes* sp. 670 mammals 671 *Nabis apterus* 670 *Parus major* 204 *Platycleis grisea* 670 *Rhynocoris iracundus* 670 susceptible to *Neoplectana carpocapsae* 1204
- Lymantria monacha*, NPV against, in Sweden 664
- Lymantria xyliana* *Beauveria bassiana* against 1729 in China 191, 1729 infected by NPV 191, 1729 parasitised by *Ooencyrtus* sp. 1729
- Lymnaea caillaudi*, controlled by *Ambrosia maritima*, in Egypt 778
- Lymnaea natalensis* controlled by *Ambrosia maritima* 1841 eliminated by *Marisa cornuarietis* 1837 in Tanzania 780, 1837 infected by *Cercaria guttata* 780
- Lymnaea truncatula* in France 294 *Oxychilus draparnaudi* against 294 *Zonitoides nitidus* against 294
- Lyngbya* attacked by *Ctenopharyngodon idella*, in USA 325 inhibiting aquatic weeds 1883
- Lysuthia ludoviciana*, attacking *Myriophyllum aquaticum* 829
- Lysiphlebus ambiguus*, parasitising fruit aphids 1103, 1667
- Lysiphlebus fabarum* parasitising *Aphis citricola* 174 *Aphis craccivora* 1002 *Aphis fabae* 1002 *Toxoptera aurantii* 174 preyed on by *Chrysopa formosa* 1002
- Lysiphlebus testaceipes* parasitising *Aphis gossypii* 1959 *Myzus persicae* 1959 *Rhopalosiphum maidis* 1959 *Toxoptera aurantii* 174 *Toxoptera citricida* 1959
- Macadamia** *Eriococcus ironsidei*, preyed on by *Amblyseius nambourensis*, in Australia 1430
- Macrobrachium*, preying on *Biomphalaria glabrata* 1310
- Macrocentrus** parasitising *Agrotis segetum* 598 *Elasmopalpus lignosellus* 1579
- Macrocentrus delicatus*, parasitising *Chionodes mediofuscella* 815
- Macrocentrus grandii* development 2006 infected by *Nosema pyraustae* 516 parasitising *Ostrinia furnacalis* 1553 *Ostrinia nubilalis* 516, 1551, 2006
- Macrocentrus instabilis*, parasitising *Acrobasis juglandis* 166
- Macrocentrus iridescens*, parasitising *Choristoneura conflictana* 1737
- Macrocentrus linearis*, parasitising *Archips macrocentrus* 1124
- Macrocentrus rossemi*, parasitising *Cacoecimorpha pronubana*, description 1925
- Macrolophus nubilus*, preying on glasshouse pests 119
- Macrophomina phaseolina*, antagonists, in India 84
- Macropodus cupanus*, preying on *Culex* spp. 250, 727

- Macrosiphoniella oblonga*, infected by *Conidiobolus osmodes*, in France 225
- Macrosiphum euphorbiae* attacking *Pteridium aquilinum* 819
parasitised by *Aphidius nigripes* 963
- Macrosiphum rosae* in India 1757
parasitised by
 Aphelinus sp. 1757
 Aphidius rosae 1757
- Macrotermes*, preyed on by *Megaponera foetens*, in Kenya 1653
- Macrotrypeta orialidina*, parasitised by *Opisus paeoniae*, in USSR 227
- Madagascar**
 Balyana spp., parasitised by *Oligosita* spp. 399
 Coelaenomenodera perrieri, parasitised by *Oligosita* spp. 399
- Mahanarva posticata*, *Metarhizium anisopliae* against, in Brazil 6, 7, 8 1408
- Maize**
 Agrotis ipsilon parasitised by *Bonnetia comta*, in USA 1022
 susceptible to NPV's 519
- Chilo partellus*
 integrated control, in India 1020
 parasitised by *Trichogramma chilostraeae*, in India 1556
 preyed on by spiders, in India 14
- Dalbulus maidis*, parasitised by *Agonotopus* sp., in El Salvador 12
- Diabrotica longicornis*, preyed on by carabids, in Canada 15
- Diatraea lineolata*, integrated control, in Nicaragua 1021
- Diatraea saccharalis*, *Bacillus thuringiensis* against, in Peru 1555
- Heliothis zea*, parasitised by *Metagonistylum minense*, in Guadeloupe 1554
- Mythimna separata*, *Apanteles ruficrus* against, in Australia 1025
- Ostrinia furnacalis*, parasites, in Korea 1553
- Ostrinia nubilalis*
 Bacillus thuringiensis against in Romania 517
 Lydeella thompsoni against, in USA 1551
 natural enemies, in USA 516
 Nosema pyraustae against, in USA 1019
 preyed on by *Agelaius phoeniceus*, in Canada 1018
 Trichogramma spp. against in Austria 13, 1550
 in France 1549
 predacious arthropods, in USA 145
- Rhopalosiphum maidis*, coccinellid predators, in Canada 11
- Sesamia cretica*, egg parasites, in Egypt 1023
- Spodoptera frugiperda*
 Bacillus thuringiensis against, in Peru 1555
 integrated control, in Nicaragua 1021
- parasites
 in Brazil 518
 in Guadeloupe 1554
 pathogens against, in USA 616
- Malachius geniculatus*, preying on *Sitobion avenae* 32
- Malacocoris chlorizans*, preying on apple pests, in Norway 159, 626
- Malacosoma californicum californicum*, *Bacillus thuringiensis* against, in USA 677
- Malacosoma constrictum constrictum*, *Bacillus thuringiensis* against, in USA 677
- Malacosoma dissitia*
 in Canada 192, 685, 1231
 Nosema dissitiae against 192, 1231
 NPV against 685
 Pleistophora schubergeri against 1231
- Malacosoma neustria*
 Bacillus thuringiensis against 676
 in Romania 195
 in USSR 153, 676
 infected by
 Aspergillus sp. 153
 Fusarium sp. 153
 Penicillium spp. 153
 parasitised by
 Apanteles juniperatae 153
 Apanteles sp. 676
 Meteorus versicolor 153
 Meteorus sp. 676
 Pimpla tutionellae 153
 Telenomus laeviusculus 153
 Telenomus spp. 195
- Malaysia**
 Cephanodes hylas, natural enemies, in West Malaysia 654
 Chilo sacchariphagus, *Trichogramma* spp. against 5
 Cordia curassavica, biological control 307, 807
 Crocidolomia binotalis, *Bacillus thuringiensis* against 100
 economic pests, natural enemies, in West Malaysia 923
 insects of Brunei 1460
 Phragmataecia gummata, *Tumidiclava* sp. against 5
 Plutella xylostella hyperparasites 99
 infected by *Zoophthora radicans* 1077
 Tetramoera schistaceana, *Trichogrammatoides nana* against 5
 Tirathaba rufivena, parasitised by *Venturia palmaris* 188
- Mamestra brassicae**
 avoidance of *Bacillus thuringiensis* 573
 Bacillus thuringiensis against 96, 1602
 in France 1609
 in Japan 2036
 in USSR 96, 97, 1602
 in Yugoslavia 1609
 infected by
 Entomophthora grylli 2036
 Nosema equestris, production technique 882
 Pleistophora grossa, separation technique 1898
- NPV against 1609
- dosage response 368
effect of age 1514
production 1903
vertebrate safety 888
- parasitised by *Eurithia consobrina* 97
- preyed on by *Pterostichus melanarius* 97
- susceptibility to
 Nomuraea rileyi 146
 Paecilomyces fumosoroseus 146
- Trichogramma euproctidis* against 1602
- Trichogramma* spp. against, release technique 370
- Mamestra configurata**, natural enemies against, in Canada 1973
- Mangoes**
 Aceria mangiferae, preyed on by *Amblyseius swirskii*, in Egypt 1175
 Aspidiotus destructor, parasites, in India 1172
 Chloropulvinaria polygonata, parasitised by *Aphyus* sp., in India 1172
 Chlumetia transversa, parasites, in India 1172
 Chunrocerus niveosparus, parasitised by *Gonatocerus* sp., in Taiwan 651
 Drosicha mangiferae, preyed on by *Sumnius cardoni*, in India 1172
 Helicotylenchus digonicus, preyed on by *Iotonchus* sp., in India 1176
 Metaculus mangiferae, preyed on by *Amblyseius swirskii*, in Egypt 1174
 Orthaga euadrasalis, natural enemies, in India 1172, 1173
 Rastrococcus iceryoides, natural enemies, in India 1172
- Mantibaria manticida**, parasitising *Mantis religiosa*, biology 971
- Mantis religiosa*, parasitised by *Mantibaria manticida*, in Italy 971
- Maples**
 Ennomos subsignarius, egg parasites, in USA 207
 Fomes connatus, *Trichoderma harzianum* against, in USA 1212
 gall midges, parasitised by *Acerotella* spp., in North America 394
- Marietta javensis*, parasitising *Microterys flavus*, biology 956
- Marisa cornuarietis*
 attacking *Biomphalaria glabrata* 1840
 controlling
 Biomphalaria pfeifferi, in Tanzania 1837
 Bulinus tropicus, in Tanzania 1837
 Lymnaea natalensis, in Tanzania 1837
 data sheet 779
- Marrubium vulgare**
 attacked by
 Longitarsus ballota 1862
 Pterophorus spilotactylus 1862
 in Australia 1862
- Masakimya pustulata*, parasitised by *Chrysocharis sunosei*, in Japan 390

- Mastophorus muris*, infecting fleas 769
Matsumuratettix hiroglyphicus
 in Taiwan 10
 parasitised by
Callidosoma matsumuratettix
 10
Pipunculus sp. 10
Mattesia, infecting *Costelytra zealandica*
 40
Mattesia trogodermiae, storage 1920
Mauritania
Parlatonia blanchardi, biological
 control 1992
Mauritius
Aulacaspis tegalensis, *Pharoscymnus*
horni against 1544
 medical arthropods 767
 parasite-host records 928
Stomoxys nigra, integrated control
 1825
Mcgregorella depicta, attacking
Lantana camara, description 793
Medetera, preying on *Dendroctonus*
pseudotsugae 697
Medina luctuosa, preying on *Coccinella*
septempunctata 1966
Megacephala affinis, preying on
Onthophagus spp. 1316
Megacyllene mellyi, against *Baccharis*
halimifolia, in Australia 787
Megalopyge opercularis, parasitised by
Lanugo retentor 1999
Megamelus davisii
 in USA 1765
 parasitised by *Pipunculus varius*
 1765
 preyed on by *Mesovelia mulsanti*
 1765
Megaponera foetens, preying on
 termites 1653
Megarhyssa nortoni nortoni, parasitising
Sirex noctilio 1195
Megaselia halterata, infected by
Howardula husseyi, mass production
 1119
Melanagromyza albocilia, attacking
Convolvulus arvensis 801
Melanaphis sacchari
 parasitised by *Sphaerophoria*
macrogaster, in Japan 1446
 preyed on by *Ischiodon scutellaris*,
 in Philippines 984
Melangyna novaezelandiae, preying on
Acyrtosiphon kondoi 54
Melanips opacus, parasitising syrphids
 459
Melanocallis fumipennellus, *Coccinella*
septempunctata against, in USA
 635
Melanostoma fasciatum, preying on
Acyrtosiphon kondoi 52, 54
Melanostoma mellinum, preying on
 spruce aphids 1227
Melanterius, attacking *Acacia cyclops*
 795
Melastoma malabathricum, biological
 control, in Thailand 1467
Meliscavea cinctella, preying on
 spruce aphids 1227
Melitara dentata, attacking *Opuntia*
 spp. 1854
Meloidogyne
Arthrobotrys irregularis against
 488, 489
Bacillus penetrans against, in
 West Africa 116
 controlled by *Dactylella*
oviparasitica, in USA 165
Meloidogyne exigua, infected by
Bacillus penetrans, in Colombia
 657
Meloidogyne incognita
Arthrobotrys oligospora against,
 in USSR 1089
 infected by *Bacillus penetrans*,
 in South Africa 1547
Paecilomyces lilacinus against, in
 Peru 115
Menochilus sexmaculatus
 effect of insecticides 1379
 preying on *Aphis craccivora* 1064
Mermis, infecting *Prospalta capensis*
 1595
Mermithidae, as biocontrol agents 1977,
 1978, 1979
Mesochorus
 parasitising
Apanteles plutellae 99
Sylepta derogata 597
Mesocyclops leuckarti, alternate host
 for *Coelomomyces iliensis culicis*
 1800
Mesoleius, parasitising *Priophorus ulmi*
 1736
Mesoleius tenthredinis, against
Pristiphora erichsonii, in Canada 707
Mesomermis guatemalae, infecting
Simulium metallicum, description 1435
Mesopolobus, parasitising *Argyresthia*
laevigatella 1236
Mesopolobus morys, parasitising
Ceutorhynchus assimilis 562
Mesostoma, preying on mosquitoes
 738
Mesostoma zariae, preying on mosquitoes,
 description 1949
Mesovelia mulsanti, preying on
Megamelus davisii 1765
Metaculus mangiferae, preyed on by
Amblyseius swirskii, in Egypt 1174
Metagonistylum minense
 against *Diatraea saccharalis*, in
 Brazil 1533
 parasitising
Diatraea spp. 6
Heliothis zea 1554
Metamasius hemipterus, infected by
Beauveria bassiana, in Brazil 1170
Metaphycus, parasitising *Parthenolecanium*
corni 1763
Metaphycus asterolecanii, from South
 Africa, taxonomy 900
Metaphycus bartlettii, against *Saissetia*
oleae 181, 1161
Metaphycus flavus
 effect of size on parasites 965, 968
 parasitising *Saissetia oleae* 1682,
 1683, 1684
Metaphycus helvolus
 against *Saissetia oleae*, in Spain 171
 parasitising
Coccus hesperidum, encapsulation
 465
Parasaissetia nigra 1681
Saissetia oleae 182, 1161
Metaphycus lounsburyi, parasitising
Saissetia oleae 182, 1682, 1683,
 1684
Metaphycus silvestrii, parasitising
Sphaerolecanium prunastri 1142
Metaphycus stanleyi, parasitising *Coccus*
hesperidum, encapsulation 465
Metaphycus taxi, parasitising
Parthenolecanium wistariae 1763
Metarhizium anisopliae
 against
Aedes aegypti 1798
Anopheles albimanus 1798
Culex quinquefasciatus 1798
Cyclas sp., in Solomon Islands
 955
Dendroctonus frontalis 220
Hoplocampa testudinea, in
 Poland 624
Lissorhoptrus brevisrostris 529
Mahanarva posticata, in Brazil 6,
 7, 8, 1408
Nasutitermes exitiosus, bioassay
 867
Oryctes rhinoceros
 in Western Samoa 186
 in Tokelau Is. 1701
Otiiorhynchus sulcatus 1095, 1096
Spodoptera frugiperda, in USA
 616
 effect of
 formulation 1798
 pesticides 861, 1388
 light colour 486
 infecting
Anopheles stephensi 1797
Cecidophyopsis ribis 1627
Culex quinquefasciatus 1797
Curculio caryae 1388
Ostrinia nubilalis 516
Otiiorhynchus meridionalis 584
Prospalta capensis 1595
Scolytus scolytus 683
 tabanids 764
Teleogryllus commodus 1055
 mass production technique 1408
 pathogenic to mosquitoes 259
 vertebrate safety 885
Metarhizium anisopliae anisopliae,
 infecting *Tomaspis flavopicta* 543
Metarhizium anisopliae major,
 infecting *Tomaspis flavopicta* 543
Metarhizium flavoviride, against
Otiiorhynchus sulcatus 1096
Metasterus concinnus, parasitising
Rastrococcus iceryoides 1172
Metasyrphus corollae
 against *Aphis gossypii*, in USSR
 102
 oviposition 982
 parasites 459
 prey consumption 983
 preying on
Acyrtosiphon pisum 80
Brevicoryne brassicae 1963
 clover pests 601
Metasyrphus lapponicus, preying on
 spruce aphids 1227
Metasyrphus luniger, parasites, 459
Meteorus
 parasitising
Amsacta moorei 1067
Chlumetia transversa 1172
Malacosoma neustria 676
Meteorus autographae
 parasitising
Anticarsia gemmatilis 1062
Autographa biloba 1574
Rachiplusia ou 1574
Meteorus chrysophthalmus, parasitising
Loxostege sticticalis 544
Meteorus ictericus, parasitising
Epiphyas postvittana 228

- Meteorus leviventris*, parasitising
Agrotis ipsilon, oviposition 961
- Meteorus nangae*, parasitising
Mythimna separata 1446
- Meteorus unicolor*, parasitising
Spodoptera littoralis 612
- Meteorus versicolor*, parasitising
Malacosoma neustria 153
- Metopolophium dirhodum*
Aphidius spp. against 1041
in Argentina 1042
in Belgium 1928
in Chile 1041
Monocotonus nervosus against 1041
parasitised by
Aphelinus abdominalis 1042
Aphidius frumentarius 1928
preyed on by
Coccinella spp. 2054
Cycloneda polita 2054
- Metrona tuberculata*, attacking
Convolvulus arvensis 803
- Metrogaleruca obscura*, against
Cordia curassavica, in Malaysia 307,
807
- Mexico
Aleurothrixus americanus, parasitised
by *Aleurodiphilus americanus* 1931
biological control, review 1476,
1477
Dendroctonus pseudotsugae,
natural enemies 697
Ferrisia virgata, parasitised by
Pseudaphycus debachi 1933
Olliffiella spp., preyed on by
Torvotrrips spp. 681
Parthenium hysterophorus, natural
enemies 821
- Micraspis discolor*, preying on *Lipaphis*
erysimi 1596
- Micraspis vineta*, preying on *Aphis* sp.
1456
- Microcharops bimaculata*
parasitising
soyabean pests 75
Trichoplusia ni 1638
- Microctonus aethioides*
parasitising *Hypera postica*,
distribution in Ontario 55
thermal requirements 1487
- Microctonus nitidulidis*, parasitising
Stelidota geminata 122
- Microcystis*
attacked by *Hypophthalmich-*
thys molitrix, in USSR 1354
inhibiting aquatic weeds 1883
- Microdon fuscipennis*, preying on
Iridomyrmex pruinosus, biology
2019
- Microlarinus*, attacking *Tribulus terrestris*
821
- Microlarinus lereynii*, parasitised by
Bracon mellitor, in USA 1632
- Microlarinus tyrpriformis*, attacking
Tribulus spp., in Bahamas 1337
- Microlestes minutulus*, preying on
Eurygaster integriceps 29
- Micromus tasmaniae*
effect of insecticides 850
preying on *Acyrtosiphon kondoi*
52, 54, 850
threshold temperatures 1500
- Micronecta plicata*, preying on mosquitoes
1839
- Microplitis*, parasitising *Amphipyra*
pyramidea 1215
- Microplitis croceipes*, parasitising
Heliothis virescens, competition
with *Chelonus insularis* 462
- Microplitis rufiventris*
description of immature stages
593
parasitising *Spodoptera littoralis*
133, 592, 612
- Micropsectra*, infected by *Tetrahymena*
sp., in Canada 1292
- Microsporidia*, taxonomic revision 1953
- Microsporidium*, infecting simuliids 755
- Microsporidium chironomi*, infecting
Chironomus attenuatus, description
910
- Microsporidium goeldichironomi*,
infecting *Goeldichironomus*
holoprasinus, description 910
- Microterys ditaeniat*, parasitising
Coccus spp., description 392
- Microterys flavus*
against soft scales, in USSR 709
biology 466
parasitised by
Marietta flavus 965
Pachyneuron muscarum 968
parasitising
Coccus viridis 1733
Rastrococcus iceryoides 1172
Saissetia miranda 1733
- Microterys hortulanus*, parasitising
Sphaerolecanium prunastri 1142
- Microtrombidium*, parasitising *Musca*
domestica 1829
- Microtus agrestis*
blood parasites, in UK 245
infected by helminths, in Norway
1779
- Microtus arvalis*
infected by
helminths, in USSR 1258
Sarcocystis cernae 241
- Microtus cabrerai*, infected by
Paranoplocephala mascomai,
in Spain 240
- Microtus oeconomus*, infected by
helminths, in Norway 1779
- Microtus pennsylvanicus*
in Canada 1256, 1777
preyed on by
Blarina brevicauda 1256
Mustela erminea 1777
- Microvelia*, preying on *Nilaparvata*
lugens, biology 1558
- Mikoletzkyia aerivora*, infecting
Phyllophaga anxia 549
- Millets
Agromyza sp., parasitised by
Bracon sp., in India 1024
Amsacta moorei, infected by NPV, in
India 520
- Mimegralla coeruleifrons*, parasites, in
India 141
- Mimogaurax lancifer*, parasitising
Latrodectus mactans 775
- Mimosa pigra*, biological control, in
Thailand 1467
- Mirax*, parasitising *Perileucopterus*
coffeella 656
- Misumenops*
preying on
citrus pests 644
Heliothis virescens 1642
- Misumenops tricuspidatus*, preying on
cotton pests 603
- Models
biological control by interspecific
competition 1010
Callosobruchus maculatus, parasitised
by *Anisopteromalus calandrae*,
functional response 1523
Culex quinquefasciatus, preyed on by
Notonecta hoffmanni, interference
2066
Delia antiqua, parasitised by
Aphaereta pallipes, interaction 2068
density dependence, descriptive ability
2058
effect of sterile insect release on natural
enemies 497
gregarious parasites, sex ratio theory
1006
Hippodamia convergens, development
505
host-parasitoid
behavioural response 2062
density dependence 2061
host-pathogen interactions 1011
multiparasite dynamics 1012
Nasonia vitripennis, parasitising
Musca domestica, functional
response 504
Pergamasus crassipes, preying on
Onychiurus armatus, functional
response 508
Senecio jacobaeae, attacked by *Tyria*
jacobaeae, interaction 2071
Tetranychus kanzawai, preyed on by
Phytoseiulus persimilis, functional
response 507
Tetranychus mcdanieli, preyed on by
Typhlodromus occidentalis 1527
Tetranychus urticae, preyed on by
Phytoseiulus persimilis, density-
distribution 2063, 2064
Thanasimus dubius, distribution
within-tree 1220
Trichogramma pretiosum, effect of
freezing 473
- Mokrzeckia indica*, parasitising
Apanteles plutellae 99
- Monacrosporium salinum*, preying on
nematodes 1842
- Monellia caryella*, *Coccinella septempunctata*
against, in USA 635
- Monellia nigropunctata*, *Coccinella*
septempunctata against, in USA 635
- Moniezia*, infecting medical arthropods,
bibliography 282
- Monobremia subterranea*, preying on
aphids 590, 1965
- Monochroa*, attacking *Pteridium*
aquilinum 819
- Monocotonus nervosus*
against
Metopolophium dirhodum, in
Chile 1041
Sitobion avenae, in Chile 1041
- Monodontomerus dentipes*, parasitising
Diprion similis 1224
- Monomorium minimum*, preying on
Rhinocyllus conicus 1321
- Monomorium pharaonis*, preying on
Hypolixus nubilosus 805
- Mononychellus tanajoa*
in Brazil 558
in Colombia 1474
in Nigeria 557
predators 558

- Montandonioli moraguesi*, against *Gynaikothrips ficorum*, in Bermuda 1475
- Morania californica*, parasitising citrus coccids, effect of insecticides 1676
- Morocco**
date palm pests, *Phanerotoma flavitestacea* against 1707
Saissetia oleae, natural enemies 1685
Scarabaeidae 784
- Morrenia odorata*
controlled by *Phytophthora palmivora*, in USA 1342
infected by potyvirus, in Argentina 814
- Motacilla caspica*, preying on *Aphis craccivora* 83
- Motacilla flava*, preying on *Aphis craccivora* 83
- Mugil cephalus*, against organic detritus, in Israel 835
- Mulberries**
Pseudococcus comstocki
biological control
in USA 1143
in USSR 629, 1974
- Mus musculus*, infected by *Sarcocystis* spp. 243, 244
- Musca**
parasitised by
Muscidifurax spp., density-dependent model 2061
Spalangia spp., density-dependent model 2061
- Musca autumnalis*
effect of dung beetles 280, 295
in USA 762, 1830
infected by *Thelazia* sp. 1830
pathogens, bibliography 282
preyed on by *Ravinia lherminieri* 762
- Musca crassirostris*, infected by *Heterotylenchus crassirostris*, in India 1438
- Musca domestica*
in German Democratic Republic 1302
in German Federal Republic 1828
in India 1829
in Uganda 1826
in USA 761, 1298, 1299, 1300
infected by *Entomophthora muscae*, effect of humidity 760
integrated control 761
Muscidifurax raptor against 761, 1299
parasitised by
Microtombidium sp. 1829
Muscidifurax raptor 1300, 1828, 1907, 2045
Nasonia vitripennis
functional response model 504
population kinetics 279
Ophyra aeneascens 1302
Pachycrepoides vindemiae 1300
Spalangia spp. 1300, 2045
pathogens, bibliography 282
predators 1826
pupal parasites, foraging strategies 2045
Spalangia endius against 1298, 1299
- Musca domestica domestica*
preyed on by
Aleochara moesta 987
Philonthus longicornis 988
- Musca sorbens*
in Hawaii 1303
- parasitised by *Spalangia endius* 1303
preyed on by
Acridothores tristis 1303
Labidura riparia 1303
- Musca vetustissima*, biological control, in Australia 1314
- Muscicapa albicollis*
preying on
Operophtera brumata 1206
Tortrix viridana 1206
- Muscidifurax*, parasitising *Musca* spp., density-dependent model 2061
- Muscidifurax raptor*
against *Musca domestica*, in USA 761, 1299
development, effect of host species 1301
foraging strategy 2045
parasitising *Musca domestica* 1300, 1828, 1907, 2045
rearing technique 1907
- Mucidifurax zaraptor*, foraging strategy 2045
- Muscina stabulans*, parasitising
Heliothis virescens 61
- Mushrooms**
Megaselia halterata, infected by
Howardula husseyi, mass production 1119
Meloidogyne incognita, *Arthrobotrys oligospora* against, in USSR 1089
- Mustards**
Crociodolomia binotalis, parasites, in India 90
Lipaphis erysimi
parasitised by *Diaeretiella rapae*, in India 1071
preyed on by *Coccinella septempunctata*, effect of insecticides 564
- Mustela erminea*, preying on *Microtus pennsylvanicus*, numerical response 1777
- Mycosphaerella arachidis*, inhibited by *Hansfordia pulvinata*, in India 554
- Mycosphaerella berkleyi*, inhibited by *Hansfordia pulvinata*, in India 554
- Mylopharyngodon piceus*, preying on snails 835
- Myobiosis diadema*, against *Diatraea saccharalis*, in Brazil 1533
- Myriophyllum aquaticum*, attacked by *Lysathia ludoviciana*, in USA 829
- Myriophyllum spicatum*
attacked by
Ctenopharyngodon idella 328
Litodactylus leucogaster 1882
Paraponyx badiusalis 321
waterfowl 831
in Denmark 831
in USA 321, 328
infected by *Fusarium sporotrichioides* 1363
- Myriophyllum spicatum exalbescens*
Tilapia zillii against, in USA 332, 1355
- Myrmarachne plateoides*, preying on *Chilo partellus* 14
- Myrmeleon*, preying on ants 501
- Myrothecium roridum*, against *Eichhornia crassipes*, in Indonesia 1358, 1875
- Mythimna separata*
Apanteles ruficornis against 1025
in Australia 1025
in India 528, 1026
- in Japan 1446
- NPV**
effect of sunlight 2041
stability in soil 1026
- parasitised by
Apanteles sp. 528
Ichneumon sp. 528
Meteorus nangar 1446
Therion circumflexum 1446
Vulgichneumon suigensis 1446
- Mythimna unipuncta*, infected by
Neoplectana carpocapsae 483, 2073
- Myzus ascalonicus*, infected by
Zoophthora phalloides, in France 1528
- Myzus cerasi*, preyed on by *Aphidoletes aphidimyza*, in USSR 590
- Myzus persicae**
Aphelinus mali against 1611
Aphidoletes aphidimyza against 1611
Chrysopa spp. against 1117
in Australia 479
in Bulgaria 1117
in Canada 1611
in China 1116
in India 1648
in Peru 1959
in UK 956
in USA 353, 570, 1599
natural enemies, sampling technique 353
parasitised by
Aphidius gifuensis 1116
Aphidius spp. 1959
Diaeretiella rapae 1599
Lysiphlebus testaceipes 1959
- predators 1648
effect of
insecticides 853
plant density 2067
weeds 1530
- preyed on by
Coccinella transversoguttata 1599
Coleomegilla maculata 353
Geocoris bullatus 1599, 2067
Hemerobius pacificus 570
Nabis alternatus 2067
Scymnoides lividigaster 479
Semidalia undecimnotata 480
Verticillium lecanii against 956
- Nabis**
effect of diflubenzuron 136
preying on
Hypera postica 1046
soyabean pests 75, 1580
precipitin test 1058
- Nabis alternatus**
effect of
insecticides 1376
plant density 2067
preying on
lucerne pests 60
Myzus persicae 2067
- Nabis americoferus**
effect of insecticides 1376
preying on lucerne pests 60
- Nabis apterus**, preying on *Lymantria dispar* 670
- Nabis ferus**, biology 455
- Nabis mauricus**, preying on
Acyrtosiphon kondoi 54

- Nabis pseudoferus*, biology 455
- Nabis punctatus*
biology 455
preying on *Sitobion avenae* 32
- Nabis roseipennis*
preying on
Autographa biloba 1574
Heliothis spp. 130
Rachiplusia ou 1574
- Nabis siniferus*, preying on cotton pests 603
- Nabis tasmanicus*, preying on *Heliothis punctigera* 1120
- Najas*, attacked by *Paraponyx rugosalis* 1357
- Najas guadalupensis*, attacked by hybrid carp 833
- Nasonia vitripennis*
courtship behaviour 470
parasitising *Musca domestica* 279
functional response model 504
- Nasutitermes exitiosus*, *Metarhizium anisopliae* against, bioassay 867
- Neanastatus cinctiventris*, parasitising *Orseolia oryzae* 18
- Neanastatus grallarius*, parasitising *Orseolia oryzae*, effect of insecticides 1563
- Neanastatus orientalis*, parasitising *Orseolia oryzae* 18
- Neanastatus oryzae*, parasitising *Orseolia oryzae*, effect of insecticides 1563
- Necremnus leucarthros*, parasitising *Oulema lichenis* 1568
- Necremnus metalarus*
against *Coleophora laricella*, in USA 212, 1743
rearing methods 212
- Nectria aurantiicola*, data sheet 1954
- Nectria flammea*, data sheet 1954
- Nematophthora gynophila* infecting *Heterodera* spp. 1655
- Nemorilla maculosa*, parasitising *Epichoristodes acerbella* 1245
- Neoapectana*
against triatomines 283
rearing technique 1405
- Neoapectana bibionis*
against *Otiornychus sulcatus*, in Australia 1098
controlling *Synanthedon tipuliformis*, in Australia 1626
infecting *Wiseana* sp. 553
potential as biocontrol agent 1980
rosette formation 1504
symbiotic bacteria 996
- Neoapectana carpocapsae*
against
Amyeloides transitella, spraying technique 1144
Chilo auricilius 1030
Choristoneura occidentalis, in USA 1735
Simulium vittatum, in USA 1295
Spodoptera frugiperda, in USA 616
Xanthogaleruca luteola in USA 1735
controlling *Prionoxystus robiniae*, in USA 634
development 484
dispersal 2033
effect of
chemical stimuli 994
substrate 1792
- effect on hymenopterous parasites 2073
- infecting
Aedes aegypti 1792
Bombyx mori 1781
Cephalcia lariciphila 1237
Ceratitidis capitata 1160
Dendroctonus ponderosae 1914
Galleria mellonella 483, 1781
Heliothis virescens 1994
Lepidoptera, susceptibility 483, 1781, 2074
Lymantria dispar 1204
Mythimna unipuncta 483, 2073
Scolytus multistriatus 1209, 1914
Spodoptera exigua 483
potential as biocontrol agent 1980
reaction to insect immunity 995
rearing technique 364
- Neoapectana feltiae*, symbiotic bacteria 996
- Neoapectana glaseri*
against pasture pests, in New Zealand 552
potential as biocontrol agent 1980
symbiotic bacteria 996
- Neoceratodus forsteri*, attacking aquatic weeds 834
- Neochetina bruchi*
against *Eichhornia crassipes*
in Australia 1874
in Sudan 824
- Neochetina eichhorniae*
against *Eichhornia crassipes*
in Australia 1361, 1874
in Indonesia 1358, 1875
in Sudan 824
attacking *Eichhornia crassipes*, effect on growth 825
- Neocnemodon pubescens*, preying on spruce aphids 1227
- Neodiprion pinetum*
controlled by *Closterocerus cinctipennis* 705
in USA 705
parasitised by
Olesicampe lophyri 705
Perilampus hyalinus 705
Spathimeigenia erecta 705
- Neodiprion sertifer*
Birdiavirus diprionis against 1753
in Canada 924, 925, 926, 1971
in Czechoslovakia 1753
in Japan 1225
in Sweden 664
in USSR 1226
infected by NPV, assessment in soil 355
natural enemies against 924, 925, 926, 1971
NPV against 664
parasitised by
Exenterus abruptorius 1226
Lophyproctus luteator 1226
preyed on by spiders 1225
- Neodiprion swainei*, insects against, in Canada 924, 925
- Neodiscodes indicus*, parasitising *Icerya formicarum* 1936
- Neoditylenchus eremus*, infecting *Tomus minor* 221
- Neodusmetia sangwani*
parasitising *Antonina graminis* 1577
taxonomy 1936
- Neomesomermis trivisi*, infecting *Simulium* spp., description 408
- Neomolgus capillatus*, controlling *Sminthurus viridis*, in Australia 1051
- Neoparasitylenchus laplandicus*, infecting *Ceratophyllus rectangularis*, description 769
- Neophyllobius farrieri*, preying on orchard pests 1669
- Neophyllobius inaequalis*, preying on orchard pests 1669
- Neopsylla setosa*, infected by nematodes, in USSR 769
- Neoscana*, preying on *Amrasca biguttula biguttula* 1112
- Neozygites fresenii*
against *Aphis fabae*, in UK 1065
ecology 1528
- Nepal**
Aphis spp., coccinellid predators 1456
- Nephaspis amnicola*, preying on *Paraleyrodes citri* 173
- Nephotettix*
in Taiwan 524
parasitised by
Gonatocerus sp. 524
Paracentrobia andoi 524
- Nephotettix cincticeps*
in Korea 1557
in Taiwan 523
parasitised by
Anagrus sp. 1557
Gonatocerus spp. 1557
Paracentrobia andoi 1557
- Nephotettix nigropictus*
in Philippines 525
in Taiwan 523
in Thailand 1028
parasitised by
Gonatocerus sp. 1028
Oligosita sp. 1028
Paracentrobia garuda 1028
- Nephotettix virescens*
in Philippines 22, 525
in Taiwan 523
in Thailand 1028
parasitised by
Gonatocerus sp. 1028
Oligosita sp. 1028
Paracentrobia garuda 1028
- Nesolynx thymus*, parasitising *Exorista sorbillans* 1780
- Nesovitrea hammonis*, preying on *Cionella lubrica* 292
- Netherlands**
apple pests, integrated control 1664
Bupalus piniarius, parasitised by *Paecilostictus cothurnatus* 1747
Liriomyza bryoniae, parasite rearing 444
Otiornychus sulcatus, *Heterorhabditis* sp. against 1097
Plutella xylostella, controlled by *Trichogramma* spp. 1601
Trialeurodes vaporariorum, alternative parasites 443
- Neuroptera**, from Europe 933
- Neuroterus*, parasitised by *Lissotorymus laevigatus*, in Japan 398
- New Caledonia**
Coccus viridis, predators 2021
Lepidosaphes beekii, parasites 1675
- New Hebrides**
Aspidiotus destructor, coccinellid predators against 1187

New Zealand

- Acyrtosiphon kondoi*, natural enemies 52, 54, 1571
- Acyrtosiphon pisum*
controlled by *Aphidius eadyi* 538
infected by *Zoopthora* spp. 1571
- aquatic weeds, *Ctenopharyngodon idella* against 324
- Carduus nutans*, biological control 821
- Costelytra zealandica*
nematodes against 546, 552
pathogens 40
preyed on by *Corvus frugilegus* 69
- Ctenoseustis obliquana*
controlled by parasites 1197
parasitised by *Aphanistes kayi* 375
- Cydia pomonella*, infected by *Nosema carpocapsae* 149, 2034, 2035
- Heliothis atychioides*, controlled by natural enemies 1198
- Heteronychus arator*
infected by *Adelina* sp. 47
predators 41, 50, 51, 53
- Inopus rubriceps*, predators 1578
- microbial pest control 941
- mosquitoes, infected by *Coelomomyces opifexi* 256
- Paropsis charybdis*, *Cleobora mellyi* against 690, 691, 1218
- pasture pests
conference 38, 45
nematodes against 546, 552, 553
pasture weeds, controlled by goats 551
- Pseudocoremia suavis*, parasitised by *Aphanistes kayi* 375
- Sirex noctilio*, natural enemies 1195, 1196
- Sitona humeralis*, natural enemies 43, 536
- Synanthedon salmachus*, natural enemies 1625
- Ulex europaeus*, biological control 800
- Wiseana* spp.
controlled by virus 48
infected by *Neoapectana bibionis* 553
- Nezara viridula**
biological control, review 939
controlled by *Trissolcus basalus* 1059
in Australia 568, 1059, 1399
in Brazil 1651
in USA 1060
parasitised by *Trichopoda pennipes* 1900
Trissolcus basalus 1651
predator assessment 1060
Trichopoda pilipes against 1399
- Nicaragua**
Diatraea lineolata, integrated control 1021
Spodoptera frugiperda, integrated control 1021
- Niger**
dung, *Onthophagus gazellus*, biology 785
- Nigeria**
mosquitoes
infected by microsporidia 1804
preyed on by *Mesostoma zariae* 738, 1949
Phenacoccus manihoti, predators 557, 1069
- Phytoseiidae 1462
- Simulium* spp., infected by microsporidia 1817
- Zonocerus variegatus*, infected by *Entomophthora grylli* 1214
- Nilaparvata lugens**
in India 24, 1029, 1558
in Philippines 525, 1027
in Solomon Islands 955
in Taiwan 524
in Thailand 1028, 1467
natural enemy complex 525, 1027, 1467
parasitised by *Anagrus optabilis* 524
Anagrus sp. 1027, 1028
Haplogonatotop sp. 1029
Oligosita sp. 1028
Paracentrobia andoi 524
preyed on by *Cyrtorhinus lividipennis* 1029
Cyrtorhinus sp. 955
Microvelia sp. 1558
Pardosa annandalei 1029
Solenopsis geminata 24
susceptible to *Paecilomyces farinosus* 1507
Penicillium oxalicum 1031
Syncephalastrum racemosum 1031
- Nitella hookeri*, attacked by *Ctenopharyngodon idella*, in New Zealand 324
- Nitzschia*, inhibiting aquatic weeds 1883
- Noctuella floralis*, attacking *Convolvulus arvensis* 801
- Nomuraea rileyi*
against soyabean pests, in USA 72, 77
Trichoplusia ni 98
development, effect of dietry constituents 2039
infecting *Anticarsia gemmatilis*, effect of NPV 1581
Boarmia selenaria 184
soyabean pests 75
Spodoptera frugiperda 1967
Trichoplusia ni 1638
inhibited by fungicides 77
vertebrate safety 885
- Norway**
apple pests, predacious insects 159, 626
- Chalcidoidea 1451
- mosquitoes, infected by *Gastromermis* sp. 1793
- rodents, infected by helminths 1779
- Sphaerotheca fuliginea*, inhibited by *Ampelomyces quisqualis* 577
- Tetranychus urticae*, *Phytoseiulus persimilis* against, introduction technique 576
- Nosema*, infecting *Galeruca rufa* 1336
- Nosema antheraeae*, infecting *Agrotis segetum* 607
- Nosema algerae*
infecting mosquitoes 739, 1288
snails 1288
- Nosema carpocapsae*
biology 2034, 2035
infecting *Cydia pomonella* 149, 2034, 2035
- Nosema costelytrae*, infecting *Costelytra zealandica* 40
- Nosema disstriae*, against *Malacosoma disstria*, in Canada 192, 1231
- Nosema dryocoetesi*, infecting *Dryocoetes autographus*, description 411
- Nosema equestris*
against *Leptinotarsa decemlineata* 112
infecting *Mamestra brassicae* 882
Otiorynchus equestris 112
production technique 882
- Nosema eurytremae*, infecting snails 1288
- Nosema fumiferanae*, against *Choristoneura fumiferana*, in Canada 1231
- Nosema gastroideae*, infecting *Gastrophysa polygoni*, recovery technique 1898
- Nosema hylobii*, infecting *Hylobius abietis*, description 911
- Nosema locustae*
against grasshoppers
in USA 1056
in West Africa 1992
Phaulacridium spp., in Australia 1057
- Nosema lymantriae*, infecting *Lymantria dispar* 672
- Nosema perezoides*, infecting *Agrotis segetum* 607
- Nosema pyraustae*
against *Ostrinia nubilalis*, in USA 1019
infecting *Macrocercus grandii* 516
Ostrinia nubilalis 516, 1551
- Nosema salivaria*, infecting *Anopheles gambiae* 1804
- Nosema serbica*, infecting *Lymantria dispar* 672
- Nosema takapauensis*, infecting *Costelytra zealandica* 40
- Nosema whitei*, infecting *Tribolium* spp. 233, 234, 1773
- Nothanguina phyllobia*, against *Solanum elaeagnifolium*, in USA 821
- Nothobranchius*, preying on mosquitoes, data sheet 1265
- Nothrus*, preying on nematodes 1009
- Notonecta hoffmanni*, preying on *Culex quinquefasciatus*, interference model 2066
- Notostira elongata*, infected by *Entomophthora erupta*, in Switzerland 1441
- Notoxus*, preying on sunflower pests 89
- Novabac*, against *Choristoneura fumiferana*, in Canada 1228
- Numicia viridis*
in South Africa 9
parasitised by *Oligosita numiciae* 9
Ootetrastichus beatus 9
- Nupserha vexator*, attacking *Xanthium pungens* 787
- Nymphula depunctalis*, infected by NPV, in India 1032
- Nymphula rugosalis*, attacking *Hydrilla verticillata* 1879
- Nysius clevelandensis*, parasitised by *Alophora lepidofera*, in Australia 974
- Nysius vinitor*, parasitised by *Alphora lepidofera*, in Australia 974

Oaks

- Agrilus bilineatus*, parasitised by
Phasgonophora sulcata, in USA 1207
- Biorhiza weldi*, parasitised by
Torymus ringofushi, in Japan 398
- Brachys tessellatus*, natural enemies, in USA 1731
- Dichomeris ligulella*, parasites, in USA 679
- Ennomos subsignarius*, egg parasites, in USA 207
- Euproctis melania*, parasitised by
Apanteles sp., in Iraq 678
- insect pests, preyed on by *Formica* spp., review 1190
- Leucoma wiltshirei*, natural enemies, in Iran 675
- Lymantria dispar*
Bacillus thuringiensis against, in USSR 673
infected by *Baculovirus* sp., in Italy 1725, 1726
natural enemies, in Yugoslavia 203
NPV against, in USSR 1728
parasitised by *Ooencyrtus kuvanae*, in USA 1202
predators, in USSR 211
- Lymantria xyliana*, natural enemies, in China 1729
- Malacosoma neustria*, natural enemies, in USSR 676
- Malacosoma* spp., *Bacillus thuringiensis* against, in USA 677
- Neuroterus* sp., parasitised by
Lissotorymus laevigatus, in Japan 398
- Olliffiella* spp., preyed on by
Torvotrrips spp., in Mexico 681
- Operophtera brumata*, bird predators, in Czechoslovakia 1206
- Phoradendron flavescens*, attacked by *Citheronia regalis*, in USA 838
- Phryganidia californica*, parasitised by *Itoplectis behrensii*, in USA 680
- Tortrix viridana*
Bacillus thuringiensis against, in USSR 1730
bird predators, in Czechoslovakia 1206
natural enemies, in USSR 709
- Xanthoterus politum*, parasites, in USA 1732
- Obtusiclava oryzae**
effect of insecticides 1563
parasitising *Orseolia oryzae* 18, 1563
- Occuloxenium compitale**, preying on aphids 1965
- Ochetina bruchi**
attacking
Limnobia stoloniferum 1877
Ludwigia peploides 1877
Pistia stratiotes 1877
- Ochromolopsis staintoniella**
in Italy 1687
parasitised by
Bracon laetus 1687
Chelonus elaeaphilus 1687
- Ocnogyna loewii**
in Iraq 611, 1575
parasitised by *Apanteles* sp. 611, 1575
preyed on by *Camponotus* spp. 1575
- Octomyomermis muspratti**, infecting mosquitoes, biology 737
- Octotoma championi**, against *Lantana camara*, in Australia 787
- Octotoma scabripennis**, attacking *Lantana camara* 787
- Odontocolon**, keys, in UK 1417
- Odontomachus**, preying on
Cnaphalocrocis medinalis 19
- Odontoponera transversa**, preying on *Cnaphalocrocis medinalis* 19
- Odontopsyllus quirosi**, parasitising *Oryctolagus cuniculus* 239
- Odontosema anastrephae**, parasitising *Ceratitis capitata* 1693
- Odontotermes**, preyed on by
Megaponera foetens, in Kenya 1653
- Oecanthus nigricornis**, parasitised by *Acmopolynema varium*, in USA 1941
- Oecanthus niveus**, parasitised by *Acmopolynema varium*, in USA 1941
- Oechalia schellebergii**
disseminating NPV 1120
preying on
Heliothis punctigera 1120
Paropsis charybdis 690
Phalaenoides glycinae 589
- Oecophylla**, preying on *Helopeltis antonii* 1692
- Oecophylla smaragdina**
against *Brontispa longissima*, in Solomon Is. 1702
preying on
Amblypelta cocophaga 659
Metrogaleruca obscura 307
Pantorytes biplagiatus 659
- Oedemopsis scabricula**, parasitising tree pests, in Canada 915
- Oediopalpa guerini**, parasitised by *Trichogramma semifumatum*, in Brazil 1561
- Oiketicus kirbyi**
Bacillus thuringiensis against 1171
in Colombia 1171
infected by
Akanthomyces sp. 1171
Paecilomyces sp. 1171
parasitised by
Apanteles sp. 1171
Psychidomicroa sp. 1171
Spilochalcis sp. 1171
preyed on by *Pyemotes* sp. 1171
- Oil palm**
biological pest control, in Peru 1986
Coelaenomenodera elaeidis, *Chrysonotomyia* sp. against, in Ivory Coast 662
Lapaemides dedalus, natural enemies in Peru 1189, 1705
Retracrus elaeis, controlled by
Hirsutella thompsonii, in Colombia 1704
Tirathaba rufivena, parasitised by *Venturia palmaris*, in Malaysia 188
- Okra**
Earias vittella, *Bacillus thuringiensis* against, in India 1597
- Oleanders**
Syntomeida epilais jucundissima, *Bacillus thuringiensis* against, in USA 712
- Olesicampe benefactor**, against *Pristiphora erichsonii*, in Canada 707
- Olesicampe lophyri**, parasitising *Neodiprion pinetum* 705
- Olesicampe monticola**, parasitising *Cephalcia lariciphila*, host location 957
- Oligonychus biharensis**
in India 1591
preyed on by
Olios sp. 1591
Poecilochroa sp. 1591
Scolothrips indicus 1591
- Oligonychus coffeae**, predators, in Egypt 604
- Oligonychus indicus**, predators, in India 1995
- Oligonychus punicae**, preyed on by *Typhlodromips benavidesi*, in El Salvador 1461
- Oligosita**
parasitising
Laodelphax striatella 524
Nephotettix spp. 1028
Nilaparvata lugens 1028
Sogatella furcifera 1028
- Oligosita minuta**, parasitising *Coelaenomenodera perrieri*, description 399
- Oligosita numiciae**, parasitising *Numicia viridis* 9
- Oligosita robusta**, parasitising *Balyana* sp., description 399
- Olios**, preying on cassava mites 1591
- Olliffiella**, preyed on by *Torvotrrips* spp., in Mexico 681
- Olives**
Aspidiotus nerii, parasitised by *Aphytis melinus*, in Greece 645
biological pest control, in Peru 1986
chrysopid predators, parasites, in France 648
- Dacus oleae**
chrysopid predators 178, 180
controlled by *Opius concolor*, in Italy 1165
mortality factors, in Greece 1166
- Euphyllura olivina*, preyed on by *Chrysoperla carnea*, in France 1689
- Euphyllura phillyreae*, parasites, in Greece 445
integrated pest control 338, 1167
major pests, natural enemies, in Italy 1688
- Orthezia olivicola*, *Zagreus hexasticta* against, in Peru 1686
- Prays oleae**
integrated control, in France 647
preyed on by *Chrysoperla carnea*, in France 1689
parasites, in Spain 646, 1163
- Prays* spp., braconid parasites, alternative host, in Italy 1687
- predators, attraction to bait traps, in Greece 1690
- Saissetia oleae*
integrated control, in Italy 1162
Metaphycus bartlettii against, in Italy 181
natural enemies, in Morocco 1685
parasites, in Italy 1682, 1683, 1684

- Olives (contd.)**
Saissetia oleae (contd.)
 parasitised by *Metaphycus* spp. 182
 preyed on by *Chrysoperla carnea* in France 1689
- Olycella subumbrella*, attacking *Opuntia polyacantha*, biology 1327
- Onions**
 predatory insects 91
Sclerotium cepivorum, controlled by *Trichoderma harzianum*, in Egypt 569
- Onitis alexis*
 against dung, in Australia 1314
 effect on *Musca autumnalis* 280
- Onitis assamensis*, description 298
- Onoclella simplex*, attacking *Euphorbia esula* 1858
- Onopordum**
 attacked by *Trichosirocalus horridus*, in Europe 1322
Rhinocyllus conicus against, in USA 300
- Onthophagus*, feeding on dung, in Bulgaria 1845
- Onthophagus binodis*, against dung, in Australia 1314
- Onthophagus ferox*, feeding on dung 1314
- Onthophagus gazellus*
 biology, in Niger 785
 effect on ammonia loss in dung 295
 feeding on dung, effect of size 1844
- Onthophagus landolti*, preyed on by *Megacephala affinis*, in Panama 1316
- Onthophagus marginicollis*, preyed on by *Megacephala affinis*, in Panama 1316
- Onthophagus taurus*
 behaviour 297
 effect on *Musca autumnalis* 280
- Onthophagus vacca*, behaviour 297
- Onychiurus armatus*, preyed on by *Pergamasus crassipes*, functional response model 508
- Onychylis cretatus*, attacking *Pistia stratiotes* 1877
- Ooencyrtus**
 parasitising
Lapaemides dedalus 1189, 1705
Lymantria xyliana 1729
- Ooencyrtus ennomophagus*
 effect of freezing on host eggs 1411
 parasitising *Ennomos subsignarius* 207
- Ooencyrtus fecundus**
 fecundity
 effect of
 food 2009
 photoperiod 2008
 temperature 2007
 interactions with hosts 2010
- Ooencyrtus kuvanae*, parasitising *Lymantria dispar*, sampling methods 1202
- Ooencyrtus malayensis*, parasitising *Cephanodes hylas* 654
- Ooencyrtus nigerrimus*
 fecundity
 effect of
 food 2009
 photoperiod 2008
 temperature 2007
- Ooencyrtus pityocampae*, parasitising *Thaumetopoea pityocampa* 1744
- Ooencyrtus telenomicida*
 fecundity
 effect of
 food 2009
 photoperiod 2008
 temperature 2007
- Ooencyrtus trinidadensis venatorius*, parasitising *Triatoma infestans* 1835
- Oolathron mireyae*, parasitising *Triatoma infestans*, description 1835
- Oospora*, infecting *Phragmatobia fuliginosa* 1443
- Ootetrastichus beatus*, parasitising *Numicia viridis* 9
- Operophtera bruceata*, parasites, in Canada 205
- Operophtera brumata**
Bacillus thuringiensis against 193, 1132, 1730
 biological control, review 939
 bird predators 1206
 in Bulgaria 1192
 in Canada 205, 1193, 1971
 in Czechoslovakia 1206
 in Poland 1132
 in UK 1716
 in USSR 193, 1730
 infected by *Bacillus thuringiensis* 1192
 parasitised by *Cyzenis albicans*, density-dependent model 2061
 preyed on by *Formica rufa* 1716
- Ophioninae**, from Indo-Papuan region 893
- Ophryocystis hylesini*, infecting *Leperisinus fraxini*, description 411
- Ophyra aenescens*, parasitising *Musca domestica* 1302
- Opifex fuscus*, infected by *Coelomomyces opifexi*, in New Zealand 256
- Opisina arenosella**
 in India 1185, 1186, 1397, 1478, 1995
 parasitised by
Apanteles taragamae 1186
Brachymeria spp. 1186
Bracon brevicornis 1185, 1397, 1478, 1995
Parasierola niphantidis 1186
 susceptible to *Paecilomyces farinosus* 1507
- Opius anastrephae*, parasitising *Anastrepha* spp. 1693
- Opius bellus*, parasitising *Anastrepha* spp. 1693
- Opius canaliculatus*, parasitising *Rhagoletis pomonella* 1663
- Opius concolor*, controlling *Dacus oleae*, in Italy 1165
- Opius downesi*, parasitising *Rhagoletis pomonella* 1663
- Opius paeoniae*, parasitising *Macrotrypeta ortalidina*, description 227
- Opius pallipes*, against *Liriomyza bryoniae*, rearing technique 444
- Opomyza florum*, preyed on by *Bembidion* spp., in USSR 25
- Opuntia**
 attacked by *Melitara dentata* 1854
 in Australia 1853
 in USA 1854
- Opuntia aurantiaca*, biological control, in South Africa 821
- Dactylopius austrinus* against, in Australia 821
- Opuntia ficus-indica*, biological control, in South Africa 821, 1318
- Opuntia fragilis*, *Cactoblastis* spp. against, in Canada 799
- Opuntia inermis*, biological control, in Australia 786
- Opuntia polyacantha*
 attacked by *Olycella subumbrella*, in USA 1327
Cactoblastis spp. against, in Canada 799
- Orcus chalybeus*, preying on *Paropsis charybdis* 691
- Orgilus elasmopalpi*
 biology 962
 parasitising *Elasmopalpus lignosellus* 962, 1579
- Orgilus lepidus*, parasitising *Phthorimaea operculella* 107
- Orgilus nitidus*, parasitising *Elasmopalpus lignosellus* 1579
- Orgyia antiqua*, *Bacillus thuringiensis* against, in Poland 1132
- Orgyia pseudotsugata*
Bacillus thuringiensis against 1234
 in Canada 1234
 in USA 1233, 1235
 infected by NPV 1234, 1235, 1916
 parasitised by *Telenomus californicus* 1233, 1496
- Oribatula plantivaga*, natural enemies, in Italy 176
- Orius**
 preying on
 cotton pests 600
Eotetranychus pruni 1629
 lucerne pests 60
Panonychus ulmi 1665
Pectinophora gossypiella 125
 seasonal abundance 600
- Orius albidipennis*
 preying on
 clover pests 1052
Lipaphis erysimi 1596
- Orius insidiosus*
 development, effect of temperature 1499, 2023
 preying on
 apple pests 1140
Heliothis spp. 130, 1642
Panonychus ulmi 160
Rhinocyllus conicus 1321
Sericothrips variabilis
 effect of host density 2056
 searching strategies 1526
 soyabean pests 1061, 1580
 sunflower pests 89
 rearing technique 1401
- Orius laevigatus*, preying on clover pests 1052
- Orius majusculus*
 preying on
Diuraphis noxia 31
Schizaphis graminum 31
- Orius minutus*
 effect of pyrethroids 1372
 preying on
 cotton pests 603
Dialeurodes citri 1679
- Orius niger*, preying on *Sitobion avenae* 32
- Orius niger compressicornis*
 preying on
Diuraphis noxia 31
Schizaphis graminum 31

- Orius tristicolor*
effect of insecticides 1376
preying on cotton pests 1106
searching behaviour 990
- Orius vicinus*, preying on *Psylla* spp. 628
- Ormiscodes rufosignata*
in Chile 451
parasitised by
Habronyx albifrons 451
Hyposoter niger 451
Stomaatotachina porteri 451
- Ornithodoros lahorensis*, infected by
Bacillus thuringiensis, in USSR 1968
- Orobanche*, pathogens, in Yugoslavia 1364
- Orobanche aegyptiaca*, *Fusarium oxysporum orthoceras* against, in USSR 1884
- Orobanche crenata*, attacked by
Phytomyza orobanchia, in Egypt 837
- Orobanche cumana*, attacked by
Phytomyza orobanchia, in USSR 334, 335
- Orobanche ramosa*
attacked by *Phytomyza orobanchia*, in USSR 335
infected by *Fusarium* spp., in Hungary 1885
- Orseolia oryzae*
in China 18, 1563
in Thailand 2012
parasitised by
Neanastatus spp. 18, 1563
Obtusiclava oryzae 18, 1563
Platygaster spp. 18, 1563, 2012
- Orthaga euadralis*
in India 1172, 1173
infected by
Aspergillus flavus 1173
Beauveria bassiana 1173
Serratia marcescens 1173
parasitised by
Brachymeria lasus 1172
Hormius sp. 1172
Pediobius bruchicida 1172
Tetrastichus sp. 1172
- Orthezia olivicola*, *Zagreus hexasticta* against, in Peru 1686
- Orthogalumna terebrantis*, attacking
Eichhornia crassipes 1874
- Orthosia hibisci*, predators, effect of food sprays 158
- Orthotylus marginalis*, preying on apple pests 159, 626
- Orthotylus nassutus*, preying on
Panonychus ulmi 1665
- Oryctes rhinoceros*
Baculovirus oryctes against 186
biological control, review 939
controlled by *Baculovirus oryctes* 1700, 1701
in India 1184, 1995
in Tokelau Is. 1701
in Tonga 1700
in Western Samoa 186
infected by *Acinetobacter calcoaceticus* 1184
Metarhizium anisopliae against 186
Platyeris laeviscolis against 1995
- Oryctolagus cuniculus*
in Australia 237
in Chile 1251, 1252
- in France 239, 1776
in Spain 1251
in UK 238
parasitised by
Caenopsylla laptevi 239
Odontopsyllus quirosi 239
Spilopsyllus cuniculi 237, 238, 239, 1776
Xenopsylla cunicularis 239, 1776
predators 1251, 1252
- Ostrinia furnacalis*
in Japan 1446
in Korea 1553
parasitised by
Eriborus sinicus 1446
Macrocentrus grandii 1553
Trichogramma evanescens 1553
- Ostrinia nubilalis*
Bacillus thuringiensis against 517, 1994
in Austria 13, 1550
in Canada 1018
in France 1549, 1552
in Romania 517
in USA 516, 1019, 1090, 1551
infected by
Bacillus cereus 516
Beauveria bassiana 516
Cephalosporium sp. 516
Clostridium sp. 516
Metarhizium anisopliae 516
Nosema pyraustae 516, 1551
Lydella thompsoni against 1018, 1551
Nosema pyraustae against 1019
parasitised by
Aplomya caesar 516
Diadegma terebrans 516
Lixophaga sp. 516
Macrocentrus grandii 516, 1551, 2006
Trichogramma spp. 905, 1942
preyed on by *Agelaius phoeniceus* 1018
Trichogramma spp. against 13, 340, 1090, 1549, 1550, 1994
virus bioassay 870
- Oswaldia*, trapping technique 1390
- Otiorynchus equestris*, infected by
Nosema equestris 112
- Otiorynchus meridionalis*
in France 584
infected by
Beauveria bassiana 584
Metarhizium anisopliae 584
parasitised by *Pendelleia otiorynchi* 584
- Otiorynchus sulcatus*
Beauveria bassiana against 1096
Heterorhabditis spp. against 1097, 1098
in Australia 1098
in German Federal Republic 1095
in Netherlands 1097
in Sweden 1096
Metarhizium anisopliae against 1095, 1096
Metarhizium flavoviride against 1096
Neoplectana bibionis against 1098
- Oulema lichenis*
in Bulgaria 1568
parasitised by
Anaphes flavipes 1568
Catolaccus ater 1568
- Dibrachys* sp. 1568
Eupteromalus sp. 1568
Necremnus leucarthros 1568
Pteromalus sp. 1568
- Oulema melanopus*
control efforts, review 940
in Bulgaria 1568
in USA 468
parasitised by
Anaphes flavipes 1568
Dufouria nigrita 1568
Gelis sp. 1568
Tetrastichus julis against 468
- Oxycarenus luctuosus*, parasitised by
Alopera lepidofera, in Australia 974
- Oxychilus draparnaudi*, against
Lymnaea truncatula, in France 294
- Oxydia trychiata*
in Colombia 1710, 1711, 1712
infected by *Bacillus thuringiensis* 1710
parasitised by
Apanteles sp. 1710
Aphaereta sp. 1710
Casinarina sp. 1710
Chaetogaedia ochriceps 1710
Chaetophorocera sp. 1710
Patelloa sp. 1710
- Oxyopes javanus*, preying on *Amrasca biguttula biguttula* 1112
- Oxyopes mundulus*
preying on
cotton pests 602
Heliothis spp. 1643
- Oxyopes pandae*, preying on *Chilo partellus* 14
- Oxyopes salticus*
alternate feeding site 500
preying on *Heliothis* spp. 130, 1642
- Oxyopes scalaris*, preying on citrus pests 644
- Oxysarcodexia conclausa*, parasitising
Lapaemides dedalus 1189
- Pachycerus madidus*, attacking
Heliotropium europaeum 1862
- Pachycrepoideus vindemiae*, parasitising
Musca domestica 1300
- Pachydiplax longipennis*, preying on
Solenopsis invicta 1308
- Pachyneuron aphidis*, parasitising
Aphelinus toxopteraphidis 31
- Pachyneuron coccorum*, parasitising
Blastothrix sericea 124
- Pachyneuron muscarum*
hyperparasitising *Sphaerolecanium prunastri* 1142
parasitising *Microterys flavus*, biology 968
- Paecilomyces*, infecting *Oiketicus kirbyi* 1171
- Paecilomyces catenianulatus*, infecting
Archips ingentanus, description 1442
- Paecilomyces catenobliquus*, infecting
Adoxophyes privatana, description 1442
- Paecilomyces farinosus*
against *Hoplocampa testudinea*, in Poland 624
effect of pesticides 863
host range 1507
infecting
Bemisia tabaci 998
Galleria mellonella 722
Scolytus scolytus 683

- Paecilomyces farinosus* (contd.)
Synanthedon salmachus 1625
mode of penetration 998
vertebrate safety 885
- Paecilomyces fumosoroseus*
against *Hoplocampa testudinea*,
in Poland 624
vertebrate safety 885
- Paecilomyces lilacinus*, against
Meloidogyne incognita, in Peru
115
- Paecilomyces varioti*, infecting
Tabanus autumnalis brunnescens
764
- Paecilomyces viridis*, against *Dendroctonus*
frontalis 220
- Paederus alfieri*
preying on
clover pests 1052
cotton pests 600
seasonal abundance 600
- Paederus ilsaе*, preying on clover pests
601
- Paeonies**
Macrotrypeta ortalidina, parasitised
by *Opius paeoniae*, in USSR 227
- Pakistan**
Acacia nilotica, natural enemies 821
Galleria mellonella, *Bacillus*
thuringiensis against 723
Pectinophora gossypiella, natural
enemies 127, 128
sugarcane borers, biological control
510
- Pales pavidus*, rearing technique 873
- Palexorista inconspicua*
parasitising
Diprion pini 1223
Diprion similis 1224
- Palexorista solennis*, parasitising
Crocidolomia binotalis 90
- Palpita quadristigmatis*, *Trichogramma*
euproctidis against, in Peru 1943
- Panama**
Hydrilla verticillata, attacked by
Nymphula rugosalis 1879
Onthophagus spp., preyed on by
Megacephala affinis 1316
Phereoeca allutella, parasitised by
Apanteles sp. 235
- Pandelleia otiorhynchi*, parasitising
Otiorhynchus meridionalis 584
- Pandemis cerasana*, parasitised by
Oudemopsis scabricula, in Canada
915
- Pandemis heparana*
Bacillus thuringiensis against 1660
in Bulgaria 1660
in France 1661
infected by NPV 1661
Trichogramma spp. against 1660
- Panonychus citri*
Amblyseius spp. against 406
in Italy 176
in USA 406, 1008
preyed on by *Typhlodromus*
occidentalis 1008
- Panonychus ulmi*
biological control, review 147
in Bulgaria 1660
in France 1665
in Italy 632, 1630
in Netherlands 1664
in USA 627, 1008, 1138, 1139
1140
integrated control 1660
predators 627, 1140, 1630
- preyed on by
Amblyseius fallacis 1138, 1139
Coniopteryx esbenpeterseni
632
Deraeocoris spp. 1665
Leptothrips mali 160
Orius insidiosus 160
Orius sp. 1665
Orthotylus nassutus 1665
Stethorus punctum 160
Typhlodromus occidentalis
1008
Typhlodromus pyri 1136, 1664
- Panstrongylus megistus*, natural enemies
in Argentina 1835
- Pantorhytes biplagiatus*, preyed on by
Oecophylla smaragdina, in Solomon
Islands 659
- Papaver somniferum*, attacked by
Ceutorhynchus maculalaba, host
specificity 312
- Papilio demoleus*
in Saudi Arabia 641
in Thailand 1467
infected by *Bacillus* sp. 641
- Papilio thoas thoantides*, parasitised
by *Lespesia protoginoi*, in Argentina
1157
- Papilio xuthus*
in Japan 642, 1216
parasitised by *Trogus mactator* 1216
preyed on by *Polistes* spp. 1216
Pteromalus puparum against 642
- Papua New Guinea**
Leptocoris oratorius, preyed on
by *Conocephalus* spp. 21
Salvinia molesta, biological
control 821
- Parabemisia myricae*
Encarsia sp. against 1155
Eretmocerus sp. against 1155
in USA 1155
- Paracentrobia andoi*
parasitising
Nephotettix spp. 524, 1557
Nilaparvata lugens 524
- Paracentrobia dimorpha*, parasitising
Sesamia cretica 1023
- Paracentrobia garuda*, parasitising
Nephotettix spp. 1028
- Paragus tibialis*, preying on *Pentalonia*
nigronervosa 1650
- Paraleyrodies citri*
in USA 173
parasitised by *Encarsia* sp. 173
preyed on by
Delphastus pusillus 173
Nephaspis annicola 173
- Paranastatus*, against *Graeffea crouanii*,
in Tokelau Is. 1701
- Paranastatus nigriscutellatus*, against
Graeffea crouanii, in Western
Samoa 187
- Paranastatus verticalis*, against *Graeffea*
crouanii, in Western Samoa 187
- Paranguina picridis*, infecting
Centaurea picris 1338
- Paranoplocephala mascomai*, infecting
Microtus cabreræ, description 240
- Parapendemis chondrillana*, parasitised
by *Symptiesis albiventris*, in USSR
1423
- Paraponyx badiusalis*, attacking
Myriophyllum spicatum 321
- Paraponyx minutalis*, attacking
Hydrilla verticillata 1356, 1357
- Paraponyx rugosalis*, attacking
Hydrilla verticillata 1357
- Paraprosalpia silvestris*, preying on
Aedes spp. 1270
- Parasaissetia nigra*
in India 1179
in Peru 1681
parasitised by
Coccophagus caridei 1681
Metaphycus helvolus 1681
Scutellista cyanea 1179,
1681
- Paraseiulus parva*, description 1462
- Paraseiulus soleiger*, preying on
orchard pests 1669
- Parasetigena silvestris*, trapping technique
1390
- Parasierola*, parasitising *Pectinophora*
gossypiella, biology 969
- Parasierola nigrifemur*, against *Rhyacionia*
buoliana, in Argentina 452
- Parasitaphelenchus*, infecting *Tomicus*
minor 221
- Parasitaphelenchus sexdentati*,
infecting *Ips sexdentatus* 1222
- Parasitorhabditis erosus*, infecting
bark beetles 197
- Parasitorhabditis fuchsii*, infecting
Tomicus minor 221
- Parasitorhabditis slankisi*, infecting
bark beetles 197
- Parasitylenchus macrobursatus*,
infecting *Tomicus minor* 221
- Parathelohania africanus*, infecting
Anopheles gambiae 1804
- Paratheresia claripalpus*
against *Diatraea saccharalis*
in Brazil 1533
in Peru 1537
parasitising *Diatraea saccharalis*
6, 1536, 1555, 1906
rearing technique 1906
- Paratrachogramma giraulti*,
parasitising *Acrocercops orthostacta*,
description 400
- Paratriphleps laeviusculus*, rearing
technique 1401
- Pardosa*, preying on *Chilo partellus*
14
- Pardosa agrestis*, effect of *Bacillus*
thuringiensis 96
- Pardosa annandalei*, preying on
Nilaparvata lugens 1029
- Pardosa sternalis*, feeding habits,
serological technique 864
- Parechthrodryinus clavicornis*
synonym 1935
- Parlatoria blanchardi*, biological
control, in Mauritania 1992
- Parlatoria oleae*, biological control,
review 939
- Parlatoria pergandii*, biological control,
in Spain 171
- Parlatoria ziziphus*, infected by
Podonectria coccicola 1680
- Paropsis charybdis*
Cleobora mellyi against 691,
1218
in New Zealand 690, 691, 1218
preyed on by
Cermatulus nasalis 690
Harmonia spp. 691
Oechalia schellenbergii 690
Orcus chalybeus 691
Rhyzobius ventralis 691
- Parotis vertumnalis*, parasitised by
Pentalitomastix nacoleiae, in
India 1118

Parthenium hysterophorus

- attacked by *Listronotus setosipennis*, in Brazil 787
- natural enemies in Mexico 821

Parthenolecanium corni, parasites, in UK 1763**Parthenolecanium wistariae**, parasites, in UK 1763**Parus**, against *Thaumetopoea pityocampa*, in Italy 1746**Parus caeruleus**

- preying on
 - Cydia pomonella* 1658
 - forest pests 1717
 - Operophtera brumata* 1206
 - Phyllonorycter rajellus* 206
 - Tortrix viridana* 1206

Parus major

- preying on
 - forest pests 1191, 1206, 1717
 - Lymantria dispar* 204
 - Phyllonorycter rajellus* 206

Passer montanus

- preying on
 - Colopha morioakaensis* 210
 - Leucoma candida* 1205
 - Operophtera brumata* 1206
 - Tetraneura* sp. 210
 - Tortrix viridana* 1206

Passerculus sandwichensis savanna, preying on *Trichoplusia ni* 1607**Passiflora mollissima**, *Heliconius charithonius* against in Hawaii 1870**Passion fruits**

- Dione junio junio*, *Bacillus thuringiensis* against, in Brazil 1691

Patasson lameerei, against *Sitona hispidulus*, in USA 1053**Patasson luna**, parasitising *Hypera postica* 1045, 1570**Patelloa**, parasitising *Oxydia trychiata* 1710**Patelloa rusti**, parasitising soyabean pests 75**Patelloa similis**, parasitising *Copitarsia turbata* 1621**Patelloa silvatica**, trapping technique 1390**Paulinia acuminata**, against *Salvinia molesta*, in Australia 1361**Pawpaws**

- Coccus hesperidum*, parasitised by *Aneristus ceroplastae*, in India 1178
- Tetranychus* sp., preyed on by *Amblyseius ovalis*, in Pacific 424

Peaches

- Cenopalpus lancealatisaeatae*, integrated control 1472
- Meloidogyne* sp., controlled by *Dactylella oviparasitica*, in USA 165
- Panonychus ulmi*, preyed on by *Coniopteryx esbenpeterseni*, in Italy 632
- Tetranychus urticae*, preyed on by *Coniopteryx esbenpeterseni*, in Italy 632
- Valsa* spp., antagonists against, in German Federal Republic 631
- Pealius quercus*, parasitised by *Encarsia asterobemisiae*, in Italy 383

Pears*Epiphyas postvittana* parasitised by

- Goniozus jacintae*, in Australia 622
- Trichogramma funiculatum*, in Australia 154

Eriosoma lanigerum, biological control, in Australia 1133

integrated pest control 164

Panonychus ulmi, predators, in France 1665*Pseudococcus comstocki*, biological control, in USA 1143*Psylla pyri*, preyed on by *Anthocoris nemoralis*, in Italy 1666*Psylla* spp. integrated control, in France 628 natural enemies, in France 1141, 1665, 1938*Siphoninus phillyreae*, parasitised by *Encarsia* spp., in Italy 384**Pecans***Curculio caryae*

- infected by fungi, effect of fungicides 1388
- preyed on by *Solenopsis invicta*, in USA 1146

Monellia spp., *Coccinella septempunctata* against, in USA 635**Pectinophora gossypiella***Bracon brevicornis* against 1396*Chelonus* spp. against 591

in China 129, 603

in Egypt 1396

in India 1634, 1635

in Pakistan 127, 128

in USA 125, 126, 591

infected by

Bacillus cereus 128*Streptococcus* sp. 128

integrated control 125, 126, 603, 1635

parasitised by

Apanteles angaleti 127*Bracon gelechiae* 127*Elasmus johnstoni* 127*Goniozus* sp. 127*Parasierola* sp. 969*Pristomerus vulnerator* 129preyed on by *Pyemotes ventricosus* 1634**Pediobius bruchicida**, parasitising*Orthaga euadrusalis* 1172**Pediobius foveolatus**, controlling*Epilachna varivestis*, in USA 1584**Pediobius pyrgo**, parasitising *Apanteles* sp. 678**Pelargoniums***Agrobacterium tumefaciens*, *A. radiobacter* against, in France 715**Peleteria robusta**, parasitising*Copitarsia turbata* 1621**Pemphigus bursarius**, infected by*Erynia nouryi*, in France 413**Pemphigus fuscicornis**, preyed on by*Thaumatomyia* spp., in USSR 92**Pemphredon**, preying on aphids 1975**Penicillium**

infecting

Curculio elephas 636*Phyllophaga anxia* 549inhibiting *Rhizoctonia solani* 1094**Penicillium chrysogenum**, controlling *Verticillium albo-atrum*, in UK 1617**Penicillium insectivorum**, infecting *Malacosoma neustria* 153**Penicillium oxalicum**

infecting

Cofana spectra 1035*Leptocorisa acuta* 1031*Nilaparvata lugens* 1031**Penicillium patulum**, inhibiting*Gaeumannomyces graminis tritici* 35**Penicillium urticae**, inhibiting *Beauveria bassiana* 1414, 2076**Penicillium vermiculatum**

inhibiting

Sclerotinia sclerotiorum 1518*Verticillium albo-atrum* 1617**Peniophora sacrata**

inhibited by

Bacillus spp. 620*Clostridium* spp. 620**Pennaseius amba**, from Nigeria 1462**Pentalitomastix**, parasitising*Ephestia kuehniella*, defender morph 2044**Pentalitomastix nacoieiae**, parasitising*Parotis vertumnalis* 1118**Pentalonia nigronervosa**

in India 1650

preyed on by

Coccinella repanda 1650*Episyrphus viridaureus* 1650*Ischiodon scutellaris* 1650*Paragus tibialis* 1650*Scymnus* sp. 1650susceptible to *Paecilomyces**farinosus* 1507**Pentodon patruelis**, susceptible to*Bacillus popilliae* 26**Peppers***Ostrinia nubilalis*, *Trichogramma nubilale* against, in USA 1090**Perapion antiquum**, against *Emex* spp., in Australia 821**Pergalumna**, preying on nematodes 1009**Pergamasus crassipes**, preying on*Onychiurus armatus*, functional response model 508**Peribaea orbata**, parasitising *Spodoptera littoralis* 592**Pericallia ricini**, infected by GV 1517**Perilampus**, parasitising *Pristiphora erichsonii* 707**Perilampus hyalinus**, parasitising*Neodiprion pinetum* 705**Perileucoptera coffeella**

in Brazil 656

parasitised by

Cirrospilus spp. 656*Closterocerus coffeellae* 656*Colastes letifer* 656*Horismenus aeneicollis* 656*Mirax* sp. 656*Proacrias coffeae* 656**Perilitus coccinellae**

parasitising

Coccinella septempunctata 1966*Sitona humeralis* 43**Perillus bioculatus**against *Leptinotarsa decemlineata*, in Europe, review 578

alternate feeding site 500

- Perillus bioculatus* (contd.)
effect of insecticides 579
- Periplaneta americana*, parasitised by
Tetrastichus hagenowii 288
- Peristenus*, parasitising mirids 416
- Peru
aphids, braconid parasites 1959
biological control, review 1986
Bucculatrix thurberiella, natural
enemies 1644, 1926
Copitarsia turbata, tachinid parasites
1621
cotton arthropods 1646
Diatraea saccharalis
Bacillus thuringiensis against
1555
biological control 1534, 1535,
1536, 1537
parasitised by *Trichogramma*
spp. 2, 1943
Eriosoma lanigerum, parasitised by
Aphelinus mali 1662
insect pests preyed on by *Athene*
cunicularia nanodes 1970
Lapaemides dedalus, natural
enemies 1189, 1705
Liriomyza huidobrensis, parasites
1618
Meloidogyne incognita,
Paecilomyces lilacinus against 115
Orthezia olivicola, *Zagreus*
hexasticta against 1686
Parasaissetia nigra, parasites 1681
potato insects 1622
Pseudopiusia includens, preyed on by
spiders, effect of insecticides
1583
Schistocerca cancellata, natural
enemies 1654
Scrobipalpus absoluta, parasites, 1618
Spodoptera frugiperda, *Bacillus*
thuringiensis against 1555
stem borers, parasitised by *Trichogramma*
spp. 2, 1943
- Pestalotiopsis funerea*, antagonists, in
India 1219
- Petrova albicapitana*
in USA 1748
parasitised by
Apanteles petrovae 1748
Elachertus thymus 1748
Exeristes comstockii 1748
Phrynosfrontina sp. 1748
- Peucetia viridana*, preyed on *Amrasca*
biguttula biguttula 1112
- Peucetia viridans* alternate feeding site
500
- Phaenoglyphis*, parasitising *Aphidius*
eadyi 2016
- Phaenosectra fucundus*, infected by
Tetrachymena sp., in Canada 1292
- Phaenogenes invidor*, parasitising
Tortrix viridana 709
- Phaenogenes maculicornis hariatolus*
parasitising *Choristoneura fumiferana*
1230
- Phalacrotophora fasciata*, parasitising
Coccinella septempunctata 1966
- Phalaenoides glycinae*
in Australia 589
infected by GV 589
parasitised by
Exorista sp 589
Winthemia sp. 589
preyed on by *Oechalia schellebergii*
589
- Phanerotoma*, parasitising *Batrachedra*
amydraula, effect of pesticides 1472
- Phanerotoma flavitestacea*
elimination by *Pentalitomastix* sp.
2044
parasitising *Ectomyelois ceratoniae*
1707
- Phanerotoma hendecasisella*, parasitising
Cydia ptychora 86
- Pharoscyrnus horni*, against *Aulacaspis*
tegalensis, in Mauritius 1544
- Phasgonophora sulcata*, parasitising
Agrilus bilineatus 1207
- Phasiinae*, parasitising Pentatomidae,
in USA 1454
- Phasiomyia splendida*, parasitising
Elasmucha lateralis 209
- Phaulacridium*, *Nosema lucustae*
against, in Australia 1057
- Pheidole*, preyed on *Diabrotica* spp.
1125
- Pheidole dentata*, preyed on *Diatraea*
saccharalis 1015
- Pheidole floridana*, preyed on *Diatraea*
saccharalis 1015
- Pheidole megacephala*, replacing
Oecophylla smaragdina 659
- Phenacoccus aceris*
parasitised by
Aphyus apicalis, in Poland 1449
Pseudaphycus clavatus, in USSR
1934
- Phenacoccus gossypii*, biological control,
in Colombia 1587
- Phenacoccus manihoti*
in Colombia 1068
in Congo 87, 88, 1070
in Nigeria 557, 1069
parasitised by *Anagyrus* sp. 87, 88
preyed on by
Cardiastethus exiguus 87
Chrysopa sp. 1069
Coccidiplosis citri 87, 88
Exochomus spp. 87, 88, 557,
1069
Hyperaspis pumila 557, 1069
Hyperaspis senegalensis 87, 88
Kalodiplosis coccidarum 1068
Spalgi lemolea 87, 88, 1069
- Pherbellia punctata*, parasitising
Succinea putris 291
- Phereoea allutella*, parasitised by
Apanteles sp., in Panama 235
- Pheromermis pachysoma*, infecting
Vespula pennsylvanica, distribution
1836
- Pheromermis tabani*, infecting *Tabanus*
autumnalis, description 409
- Pheromermis vernalis*, infecting
Tabanus autumnalis, description 409
- Pheromermis zaamini*, infecting *Tabanus*
spp., description 1952
- Phialophora fastigiata*, inhibiting
Gaeumannomyces graminis tritici 35
- Phialophora hoffmannii*, inhibiting
Gaeumannomyces graminis tritici 35
- Phialophora melinii*, inhibited by
Trichoderma harzianum 1212
- Phidippus audax*
preyed on
Heliothis virescens 1642
Rhinocyllus conicus 1321
- Phidippus regius*, preyed on *Diaprepes*
abbreviatus 1004
- Philaenus spumarius*, infected by
Zoophthora petchi 1440
- Philippines
aphids, preyed on by *Ischiodon*
scutellaris 984
- Cnaphalocrocis medinalis*, preyed on
by ants 19
- Leptocorisa oratorius*, parasitised by
Gryon flavipes 1562
- Nilapavata lugens*, natural enemy
complex 1027
rice hoppers
parasites 22, 525
predaceous Heteroptera 552
spiders on rice 1565
- Philonthus longicornis*, preyed on
Musca domestica, biology 988
- Phlebia gigantea*
against *Valsa* spp., in German Federal
Republic 631
culture technique 366
- Phlebotomus papatasi*, susceptible to
Bacillus thuringiensis israelensis 1821
- Phlebotomus sergenti*, infected by fungus,
in Algeria 278
- Phloeotribus scarabaeoides*, natural
enemies, in Italy 1688
- Phlyctochytrium*, against soil fungi 1993
- Phobocampe*, parasitising *Operophtera*
spp. 205
- Phoenicurus phoenicurus*
preying on
Operophtera brumata 1206
Tortrix viridana 1206
- Phoma*, inhibited by *Verticillium*
sphaerosporum, in Japan 1099
- Phoma rumicicola*, infecting *Rumex*
obtusifolius 1864
- Phomopsis oblonga*, infecting *Scolytus*
spp. 1208
- Phoradendron*, attacked by ants, in
Colombia 839
- Phoradendron flavescens*, attacked by
Citheronia regalis, in USA 838
- Phorocerosoma postulans*, parasitising
locusts 68
- Phorodon humuli*
in Europe 142, 143, 144
in USSR 142, 143, 144, 590
integrated control, 142, 143
preyed on by
Anthocoris spp. 143, 144, 1911
Aphidoletes aphidimyza 590
- Phragmataecia gummata*, *Tumidiclava*
sp. against, in Malaysia 5
- Phragmatobia fuliginosa*, infected by
Oospora sp., in USSR 1443
- Phragmites australis*
Ctenopharyngodon idella against 1351
Hypophthalmichthys molitrix against
1352
in USSR 1351, 1352
- Phryganidia californica*, parasitised by
Itoplectis behrensii, in USA 680
- Phrynosfrontina*, parasitising *Petrova*
albicapitana, 1748
- Phryxe caudata*, fatty acids 980
- Phryxe vulgaris*
parasitising
Artogeia rapae 95
Pieris brassicae 95
- Phthorimaea operculella*
Bacillus thuringiensis against 1613
Copidosoma koehleri against 1619
in Australia 107, 109
in Brazil 1613
in India 1619
in South Africa 108, 1620, 2000
in USA 1092
parasitised by
Apanteles subandinus 107, 108,
1620

- Phthorimaea operculella* (contd.)
Chelonus curvimalatus 107
Copidosoma desantisi 107
Copidosoma koehleri 108, 851, 1620, 2000
Elasmus funereus 107
Orgilus lepidus 107
Temelucha minuta 107
Temelucha sp. 1998
predators, effect of insecticides 1092
susceptibility to GV 109
- Phylacteophaga froggatti*
in Australia 1217
parasitised by
Apanteles sp. 1217
Cirrospilus spp. 1217
Elasmus sp. 1217
Eupelmus sp. 1217
- Phyllactinia dalbergiae*, inhibited by
Cladosporium spongiosum, in India 693
- Phyllocoptes hyperici*, attacking
Hypericum perforatum 1862
- Phyllonorycter*, parasitised by *Apanteles* sp., in USSR 1423
- Phyllonorycter blancardella*
in Canada 1890, 1971
in USA 623
parasitised by
Apanteles ornigis 623, 1890
Sympiesis spp. 1890
- Phyllonorycter crataegella*
in USA 623
parasitised by
Prnigalis maculipes 623
Sympiesis spp., 623, 1890
- Phyllonorycter rajellus*
in UK 206
parasite complex 206
preyed on by *Parus* spp. 206
- Phyllophaga anxia*
in Canada 433, 549
infected by
Bacillus cereus 549
Beauveria bassiana 549
Fusarium sp. 549
Mikolitzkyia aerivora 549
Penicillium sp. 549
- Phylloscopus trochilus*
preying on
Operophtera brumata 1206
Tortrix viridana 1206
- Phyllotreta*, insects against, in Canada 926, 1971
- Physa acuta*, preyed on by *Sepedon aenescens* 1313
- Phytobia lantanae*, against *Lantana camara*, in Australia 787
- Phytocoris*, preying on *Pristiphora erichsonii* 707
- Phytocoris tiliae*, preying on apple pests 159
- Phytodietus rufipes*, parasitising
Loxostege sticticalis 544
- Phytomyza*, against cotton pests, in USSR 1637
- Phytomyza orobanchia*
attacking *Orobancha* spp. 334, 335, 336, 837
biology 837
- Phytomyza syngenesiae*
in Sweden 1760
in USA 94
parasitised by *Chrysocharis ainsliei* 94
- Phytonomus*, *Hexameris parastepposis* against, in USSR 1572
- Phytophthora cinnamomi*, inhibited by
Bacillus sp. in USA 1241
- Phytophthora colocasiae*, antagonists, in India 1592
- Phytophthora nicotianae parasitica*, controlled by antagonists 1657
- Phytophthora palmivora*
controlling,
Morrenia odorata, in USA 1342
infecting nematodes 2075
inhibited by *Cladobotryum amazonense*, in Brazil 1696
- Phytoptus chondrillae*, attacking
Chondrilla juncea 1860
- Phytoseiidae*, from Iran 425
- Phytoseiulus*, use in glasshouse, in USSR 1974
- Phytoseiulus macropilis*
against *Tetranychus urticae*, in USA 1761, 1762
from Cook Islands 424
response to stimuli 2065
- Phytoseiulus persimilis*
against *Tetranychus urticae*
in UK 121, 1624
in USA 1243, 1612, 1762
in USSR 104, 709
introduction technique 576
effect of insecticide 344, 855, 856, 857, 1242, 1892
field and glasshouse strains, comparison 440
in integrated control, review 1463
metabolic rates 2028
predatory behaviour 1007
preyed on by *Chernes cimicoides* 1084
preying on
Tetranychus kanzawai, functional response model 507
Tetranychus urticae
density-distribution model 2063, 2064
population dynamics 506
rearing technique 879
review of use 441, 934, 1463
- Phytoseius hawaiiensis*, preying on
Eriococcus ironsidei 906
- Phytoseius plumifer*
preying on
cotton mites 604
vine mites 1630
- Picroscytoidea*, parasitising
Hypolixus nubilosus 805
- Pieris brassicae*
Bacillus thuringiensis against 96, 572, 1602
control methods 1600
in USSR 95, 96, 97, 1602
infected by *Beauveria bassiana* 1521
parasitised by
Apanteles glomeratus 95, 97, 1482, 1521
Exorista larvarum 95
Hyposoter ebeninus 95
Phryxe vulgaris 95
Pteromalus puparum 95
Trichogramma evanescens 95
preyed on by *Pterostichus melanarius* 97
susceptibility to GV 1516
Trichogramma euproctidis against 1602
- Piezodorus guildinii*, parasitised by
Telenomus mormidae, in Brazil 82
- Pigeonpeas**
Heliothis armigera, *Eucelatoria* sp. against, in India 1586
- Pikonema alaskensis**
in USA 1419
parasitised by
Hyperbatus marmoratus 1419
Rhorus spp. 1419
- Pimephales promelas**, preying on
Aedes aegypti, effect of plants 728
- Pimpla disparis**, parasitising *Lymantria dispar* 202
- Pimpla instigator**
parasitising
fruit pests 1957
Tortrix viridana 709
rearing technique 1395
- Pimpla spuria**, parasitising fruit pests 1957
- Pimpla turionellae**
artificial diet 874
diapause 458
effect of host diet 1723
parasitising
Hyphantria cunea 1723
Lymantria dispar 1723
Malacosoma neustria 153
rearing technique 875
susceptibility to *Bacillus thuringiensis kurstaki* 1522
- Pines**
bark beetles, preyed on by woodpeckers, in Finland 700
Blastethia turionella, parasitised by
Glypta resinanae, in Poland 703
Bupalus piniarius, parasitised by
Poecilostictus cothurnatus, in Netherlands 1747
Cinara spp., preyed on by coccinellids, in German Democratic Republic 1755
Cronartium ribicola controlled by
Tuberculina maxima, in USA 1239, 1756
Dendroctonus brevicornis, preyed on by *Temnochila chlorodia*, attractants 698
Dendroctonus frontalis, natural enemies, in USA 695, 1220, 1221, 1750
Dendrolimus punctatus, biological control, in China 216
Dendrolimus spectabilis, preyed on by *Formica yessensis*, in Korea 215
Dioryctria spp., parasites, in India 702
Diprion pini, parasites, in German Federal Republic 1223
Diprion similis, mortality factors, in Italy 1224
Fusarium oxysporum, inhibited by
Suillus grevillei, in China 1240
Gonometa podocarpis, infected by NPV, in Kenya 1749
integrated pest control, in Mediterranean Basin 338
Neodiprion pinetum, controlled by parasites, in USA 705
Neodiprion sertifer
NPV, assessment in soil 355
Birdiavirus diprionis against, in Czechoslovakia 1753
mortality factors, in Japan 1225
parasitised by *Lophyproleptus luteator*, in USSR 1226
Petrova albicapitana, parasites, in USA 1748

Pines (contd.)

- Pineus pini*, *Leucopis* spp. against, in Hawaii 1466
- Rhizoctonia solani*, inhibited by *Boletus* sp., in China 1240
- Rhyacionia buoliana*
Parasiterola nigrifemur against, in Argentina 452
 parasite complex, effect of pollution, in France 213
- Rhyacionia frustrana*
Campoplex frustranae against, in USA 701
 parasites, in USA 214
- Thaumetopoea pityocampa*
Parus spp. against 1746
 parasitised by *Villa brunnea*, in France 1745
 parasite competition, in Italy 1744
- Thecodiplosis japonensis*, natural enemies, in Korea 218
- Tomicus minor*, infected by nematodes, in USSR 221
- Pineapples**
Carpophilus hemipterus, *Zeteticontus* sp. against, in Hawaii 1177
- Dysmicoccus brevipes*, parasitised by *Hambletonia pseudococcinna*, in Taiwan 652
- Pineus pini*, *Leucopis* spp. against, in Hawaii 1466
- Pinnaspis aspidistrae*
 in India 640
 parasitised by
Adelencyrtus sp. 640
Aphelinus sp. 640
Azotus sp. 640
Eretmocerus sp. 640
- Pipunculus*, parasitising *Matsumuratettix hiroglypticus* 10
- Pipunculus varius*, parasitising *Megamelus davisii* 1765
- Pissodes pini*, preyed on by woodpeckers, in Finland 700
- Pissodes strobi*, preyed on by *Lonchaea corticis*, in Canada 222
- Pistia stratiotes*
 attacked by
Athetis pectinicornis 320
Ochetina bruchi 1877
Onychylis cretatus 1877
 in Argentina 1877
 in Bangladesh 320
 in Thailand 1467
- Pithomyces*, inhibited by *Verticillium sphaerosporum*, in Japan 1099
- Plagiognathus*, preying on *Pristiphora erichsonii* 707
- Plagiognathus ribesi*, preying on currant aphids, description 1628
- Plagithmysus bilineatus*, parasitised by *Doryctes palliatus*, in Hawaii 1480
- Planes**
Corythuca ciliata, infected by *Beauveria bassiana*, in Italy 1738
- Planeta imbridana*, attacking *Xanthium strumarium* 310
- Planococcus citri*
Cryptolaemus montrouzieri against 169, 170
 in Cyprus 1673
 in Italy 168, 170
Leptomastix dactylopii against 168, 169, 1161, 1673
 parasitised by *Anagyrus pseudococci* 464
 preyed on by *Cryptolaemus montrouzieri* 343
- Planococcus vovae*
 in Poland 1449

- parasitised by
Allotropa mecrida 1449
Chartocerus subaeneus 1449
- Planorbis boissyi*, predators, in Egypt 1839
- Plantago lanceolata*
 in Canada 316
 infected by *Fusarium moniliforme subglutinans* 1344
- Platypena scabra*
 in USA 1062, 1580
 parasitised by *Apanteles marginiventris* 1062
 predators 1580
- Platycheirus scutatus*, parasites 459
- Platycleis grisea*, preying on *Lymantria dispar* 670
- Platygaster*
 descriptions 395
 effect of insecticides 1563
 parasitising
Orseolia oryzae 18, 1563
Rabdophaga spp. 395
Thecodiplosis japonensis 218
- Platygaster foersteri*, parasitising *Orseolia oryzae*, biology 2012
- Platygaster oryzae*, parasitising *Orseolia oryzae*, biology 2012
- Platyeris laevicollis*, against *Oryctes rhinoceros*, in India 1995
- Platynota*, predators, in USA 1140
- Platypalpus pictitarsis*, preying on *Sitobion avenae* 32
- Platyptilia carduidactyla*, preyed on by *Hemerobius pacificus*, in USA 570
- Platytenomus hylas* parasitising *Sesamia cretica*, biology 1542, 2013
- Pleistophora*, infecting *Sitona humeralis* 536
- Pleistophora grossa*, infecting *Mamestra brassicae*, recovery technique 1898
- Pleistophora multispora*, infecting simuliids 755
- Pleistophora schubergi*
 against
Choristonerua fumiferana 1231, 1740
Malacosoma disstria 1231
Pristiphora erichsonii 217
 in Canada 217, 1231
 infecting *Lymantria dispar* 672
 potential, against forest pests 1718
- Pleistophora simulii*, infecting simuliids 756
- Pleistophora syleptae*, infecting *Sylepta ruralis*, description 912
- Pleistophora watsoni*, infecting *Simulium* sp., description 1472
- Pleistophora xyloteri*, infecting *Xyloterus domesticus*, description 411
- Pleolophus basizonus*, parasitising *Diprion pini* 1223
- Plexippus paykullii*, preying on *Amrasca buguttula biguttula* 1112
- Plodia*, parasitised by *Bracon* spp., in Saudi Arabia 1769
- Plodia interpunctella*
Bacillus thuringiensis against 1771, 1772
 parasitised by *Bracon hebetor* 959
 susceptibility to *Bacillus thuringiensis* 1249
 virus bioassay 870

Plums

- predacious mites, in Poland 630
- Valsa* spp., antagonists against, in German Federal Republic 631
- Plusia*, natural enemies, in Brazil 75
- Plutella xylostella**
Bacillus thuringiensis against 96, 1077, 1078, 1597, 1608
 in India 1078, 1597
 in Malaysia 99, 100, 1077
 in Netherlands 1601
 in Poland 1076
 in USA 1608
 in USSR 96, 1982
 infected by
Baculovirus sp. 1982
Zoophthora radicans 1077
 parasitised by
Apanteles emarginatus 1076
Apanteles plutellae 99
Diadegma fenestralis 1076
Diadromus collaris 1076
Diadromus ustulatus 1076
Trichogramma spp. against 1601
 virus bioassay 870
- Phygadeuon*, parasitising *Phyllonorycter crataegella* 623
- Phygadeuon mediterraneus*, parasitising *Dacus oleae* 1166
- Podapolipus*, taxonomy 908
- Podisus*, preying on *Erinnyis ello* 559
- Podisus maculiventris*
 prey digestion 2024
 prey list 417
 preying on *Leptinotarsa decemlineata*, biology 111
- Podisus modestus*, preying on *Ancylis discigerana* 1211
- Podonectria coccicola*
 infecting
Chrysomphalus aonidium 1680
Insulaspis gloverii 1680
Parlatoria ziziphus 1680
Unaspis yanonensis 1680
- Poecilicia reticulata*
 against mosquitoes, in USA 273
 preying on *Culex quinquefasciatus*, efficiency 726
- Poecilochroa*, preying on cassava mites 1591
- Poecilostictus cothornatus*, parasitising *Bupalus piniarius*, biology 1747
- Poland**
 Aphidiidae 381
 apple mites, preyed on by phytoseiids 161
 apple pests, *Bacillus thuringiensis* against 1132
Blastesthia turionella, parasitised by *Glypta resinanae* 703
Cardaria draba, natural enemies 806
 Coccoidea, chalcid parasites 1449
Cydia pomonella, natural enemies 1130
Heterodera spp., infected by fungi 34
Hoplocampa testudinea, fungi against 624, 625
 integrated control, using
Trichogramma spp. 340
 plum mites 630
Plutella xylostella, parasites 1076
Sphaerolecanium prunastri, parasite complex 1142
Sylepta ruralis, infected by
Nosema syleptae 912
- Polistes*, preying on *Papilio xuthus* 1216
- Polistes canadensis*, preying on *Erinnyis ello* 559

- Polistes erythrocephalus*, preying on *Erinnyis ello* 559
- Polistes olivaceus*, preying on gram pests 85
- Polistichus connexus*, preying on *Eurygaster integriceps* 29
- Pollinia pollini*, natural enemies, in Italy 1688
- Polygenis tripus*, infected by nematodes, in Brazil 768
- Polygonum pensylvanicum*, infected by *Ustilago utriculosa*, in USA 1866
- Polygraphus jezoensis*, parasitised by *Roptrocerus barbatus*, in Japan 902
- Polyphagotarsonemus latus*, natural enemies, in Italy 176
- Polyrhachis dives*, preying on *Dendrolimus punctatus* 216
- Pomacea glauca*, attacking *Biomphalaria glabrata* 1840
- Pomegranates**
insect pests, preyed on by *Dictyna* sp., in Egypt 1180
Parasaissetia nigra, parasitised by *Scutellista cyana*, in India 1179
- Pontederia lanceolata*, infected by *Uromyces pontederiae* 1876
- Popillia quadriguttata*, susceptible to *Bacillus popilliae*. 26
- Poplars**
Leucoma candida, preyed on by *Passer montanus*, in Japan 1205
Lymantria dispar, NPV against, in USSR 1728
Malacosoma neustria, natural enemies in USSR 676
Zonocerus variegatus, infected by *Entomophthora grylli*, in Nigeria 1214
- Portugal**
Strepsiptera, revision 420
- Portulaca oleracea**
attacked by
Baris arctithorax 809
Hypurus bertrandi 810
in Egypt 809, 810
- Potamogeton ochreatus*, attacked by *Ctenopharygodon idella*, in New Zealand 324
- Potamogeton pectinatus*
attacked by waterfowl, in Denmark 831
Tilapia zillii against, in USA 332, 1355
- Potatoes**
Aphis sp., preyed on by coccinellids, in Nepal 1456
biological pest control, in Peru 1986
Copitarsia turbata, tachinid parasites, in Peru 1621
Erwinia carotovora, inhibited by rhizobacteria 1471
Heliopsis armigera, parasitised by *Trichogramma chilonis*, in India 1123
insect fauna, in Peru 1622
Leptinotarsa decemlineata
Beauveria bassiana against, in France 113
carabid predators, in USSR 1093
Perillus bioculatus against, in Europe, review 578
preyed on by *Podisus maculiventris*, in USSR 111
Liriomyza huidobrensis, parasites, in Peru 1618
- Meloidogyne incognita*, *Paecilomyces lilacinus* against, in Peru 115
- Myzus persicae*, natural enemy sampling technique, in USA 353
- Phthorimaea operculella*
biological control, in South Africa 108, 1620
Copidosoma koehleri against, in India 1619
parasites, in Australia 107
predators, effect of insecticides, in USA 1092
- Rhizoctonia solani*, antagonists, in Taiwan 1094
- Scrobipalpa absoluta*, parasites, in Peru 1618
- Praon barbatum*, parasitising *Acyrtosiphon pisum* 539
- Praon exsoletum*, parasitising *Therioaphis trifolii* 539
- Praon volucre*
parasitising
fruit aphids 1103, 1667
Sitobion avenae 32, 531
- Pratylenchus fallax*, interaction with nematophagous fungi 1468
- Pratylenchus penetrans*, interaction with nematophagous fungi 1468
- Pratylenchus zeae*, infected by *Bacillus penetrans*, in South Africa 1547
- Prays citri**
Bacillus thuringiensis against 170
in Italy 170, 1687
parasitised by *Chelonus elaeophilus* 1687
- Prays oleae**
Bacillus thuringiensis against 647
in France 647, 1689
in Italy 1167, 1687, 1688
in Spain 646, 1163
in Syria 1164
integrated control 1167
parasitised by
Ageniaspis fuscicollis
praysincola 646
Apanteles xanthostigmus 646
Bracon laetus 1687
Chelonus elaeophilus 646, 1687
Elasmus flabellatus 647
Elasmus steffani 646, 1163
Trichogramma spp. 183, 1164
preyed on by *Chrysoperla carnea* 1164, 1689
- Precis orithya minagara*, attacking *Striga asiatica* 836
- Primaprospaltella*, description 1929
- Primulas**
Otiorynchus sulcatus, *Heterorhabditis* sp. against, in Netherlands 1097
- Prionchulus punctatus*, culture technique 1902
- Prionomitus mitratus*
description 1938
parasitising *Psylla* spp. 1141, 1938
- Prionoxystus robiniae*, controlled by *Neoapectana carpocapsae*, in USA 634
- Priophorus ulmi*
in Italy 1736
parasitised by
Mesoleius spp. 1736
Pteromalus spp. 1736
- Pristiphora*, parasitised by *Agrothereutes abbreviator*, in USSR 1956
- Pristiphora erichsonii*
in Canada 217, 707, 924, 1973
- parasitised by
Bessa harveyi 707
Perilampus sp. 707
- preyed on by
Anatis sp. 707
Apateticus sp. 707
Chrysopa spp. 707
Deraeocoris sp. 707
Hemerobius sp. 707
Phytocoris sp. 707
Plagiognathus spp. 707
Tetrableps sp. 707
- Pleistophora schubergi* against 217
- Pristiphora geniculata*, insects against, in Canada 924, 925, 926
- Pristomerus**
parasitising
Chionodes mediofuscella 815
Scrobipalpa absoluta 1618
- Pristomerus euryptychiae*, parasitising *Acrobasis juglandis* 166
- Pristomerus spinator*, parasitising *Elasmopalpus lignosellus* 1579
- Pristomerus vulnerator*
biology 129
parasitising
Cydia pomonella 1130
Pectinophora gossypiella 129
- Privet**
Epiphyas postvittana, parasites, in UK 228
- Proacrias coffeae*, parasitising *Perileucoptera coffeella* 656
- Procecidochares utilis*, against *Eupatorium adenophorum*, in India 1334
- Prochiloneurus bolivari*, parasitising *Spinococcus calluneti* 1449
- Procheiloneurus pulchellus*, parasitising *Anagrus* sp. 87, 88
- Prociophilus fraxinifolii*, parasitised by *Aphelinus prociphili*, in USA 385
- Procladius*, infected by *Tetrhymena* sp., in Canada 1292
- Propylea japonica**
effect of insecticides 1377
oviposition 985
- Propylea quattuordecimpunctata*
against *Aphis gossypii*, in USSR 103
artificial diet 360
preying on
aphids, community groups 2060
Brachycaudus helichrysi 567
- Prosimulium*, *Bacillus thuringiensis israelensis* against 757
- Prosimulium mixtum*, infected by *Microsporidium* sp., in Canada 755
- Prosopochaeta setosa*, parasitising *Copitarsia turbata* 1621
- Prospalta capensis**
in India 1595
infected by
Mermis sp. 1595
Metarhizium anisopliae 1595
NPV 1595
parasitised by
Apanteles ruficrus 1595
Eriborus argenteopilosus 1595
Euplectrus euplexiae 1595
Pteromalus sp. 1595
Rogas percurrans 1595
- Prospaltella*, taxonomic status 1929
- Prospaltella flava*, parasitising *Bemisia tabaci* 1590
- Psallus ambiguus*, preying on apple pests 159, 626

- Psallus seriatus*, sampling technique 354
Psara basalis, susceptible to
Paecilomyces farinosus 1507
Psenulus, preying on aphids 1975
Pseudaphycus
 against cotton pests, in USSR 1637
 controlling *Pseudococcus comstocki*,
 in USSR 629
Pseudaphycus clavatus, parasitising
Phenacoccus aceris, description 1934
Pseudaphycus debachi, parasitising
Ferrisia virgata, description 1933
Pseudaphycus maculipennis, against
 soft scales, in USSR 709
Pseudaphycus malinus
 against *Pseudococcus comstocki*
 in USA 1143
 in USSR 1974
Pseudaulacaspis pentagona
 infected by *Nectria flammea* 1954
 parasitised by *Encarsia berlesii*,
 in Italy 1101
Pseudoazya, taxonomy 1428
Pseudococcus comstocki
 biological control, in USA 1143
 controlled by *Pseudaphycus malinus*,
 in USSR 629, 1974
Pseudococcus longispinus
Anagyrus fusciventris against 649
 1168
Hungariella peregrina against 649,
 1168
 in Israel 649, 1168
Pseudococcus maritimus, parasitised by
Zarhopalus corvinus, in USA 1143
Pseudocoremia suavis, parasitised by
Aphanistes kavi, in New Zealand
 375
Pseudodorus clavatus, preying on
 cotton pests 1106
Pseudogonatopus flavifemur,
 parasitising rice hoppers 22
Pseudogonatopus nudus,
 parasitising rice hoppers 22
Pseudogonia rufifrons, host
 relationships 977, 978, 979
Pseudomonas, inhibited by
Bdellovibrio bacteriovorus 509
Pseudomonas aeruginosa, effect of
 tree sap 1720
Pseudomonas fluorescens
 effect of tree sap 1720
 inhibiting *Erwinia carotovora* 1471
Pseudomonas solanacearum, avirulent
 strains 1471
Pseudophilus testaceus, infected by
Beauveria bassiana, in Iraq 660
Pseudoplusia includens
 in Peru 1583
 in USA 89, 1062, 1582
 infected by
Entomophthora gammae 1582
Vairimorpha necatrix 1506
 parasitised by *Apanteles marginiventris*
 1062
 predators 89
 precipitin test 1058
 preyed on by spiders, effect of
 insecticides 1583
Pseudorasbora parva, against mosquitoes,
 in USSR 729
Pseudoscymnus anomalus, against
Aspidiotus destructor, in New
 Hebrides 1187
Psilus
 descriptions 393
 parasitising *Rhagoletis pomonella*
 1663
Psittacanthus, attacked by ants, in
 Colombia 839
Psorophora columbiae, *Bacillus*
thuringiensis israelensis against, in
 USA 263, 1810
Psychidosmica, parasitising *Oiketicus*
kirbyi 1171
Psylla, attacking *Acacia cyclops* 796
Psylla crataegi, parasitised by *Prionomitus*
mitratus, in France 1938
Psylla mali, preyed on by *Calvia*
quattuordecimguttata, in USSR 476
Psylla melanoneura, parasitised by
Prionomitus mitratus, in France 1938
Psylla pyri
 in France 628, 1141, 1665, 1938
 in Italy 1666
 integrated control 164, 628
 parasitised by *Prionomitus mitratus*
 1141, 1938
 preyed on by
Anthocoris nemoralis 147, 1141,
 1665, 1666
Deraeocoris spp. 1665
Psylla pyricola, integrated control, in
 France 628
Psylla pyrisuga
 in France 628, 1141, 1938
 integrated control 628
 parasitised by *Prionomitus mitratus*
 1938
Psyllaephagus, parasitising psyllids,
 taxonomy 1961
Psyllaephagus diaphorinae, parasitising
Diaphorina citri, description 387
Psyllaephagus euphyllurae, parasitising
Euphyllura olivina 445
Psyllomermis, infecting fleas, descriptions
 769
Psyllotylenchus, infecting fleas,
 descriptions 769
Psyllotylenchus caspius, infecting
Ceratophyllus laevis 1306
Psyllotylenchus pawlowskyi, infecting
Ceratophyllus laevis 1306
Pteridium aquilinum
 infected by *Ascochyta pteridium*,
 in USA 1345
 natural enemies, effect of cyanide
 819
Pteromalus
 parasitising
Argyresthia laevigatella 1236
Euproctis melania 678
Leperisus spp. 682
Oulema lichenis 1568
Priophorus ulmi 1736
Prosopalta capensis 1595
Pteromalus gallicolus, parasitising
Diastrophus kincadai 586
Pteromalus puparum
 against *Papilio xuthus*, in Japan 642
 dispersal 642
 parasitising
Artogeia rapae 95
Pieris brassicae 95
Pteromalus semotus, parasitising
Diadegma interrupta 228
Pterophorus spilodactylus, attacking
Marrubium vulgare 1862
Pterostichus, preying on *Leptinotarsa*
deceunleata 1093
Pterostichus crenuliger, preying on
Eurygaster integriceps 29, 1040
Pterostichus cupreus, preying on wheat
 pests 1040
Pterostichus lissoderus, preying on
Eurygaster integriceps 29
Pterostichus longicollis, preying on
Eurygaster integriceps 29
Pterostichus melanarius
 effect of insecticides 97
 preying on
Diabrotica longicornis 15
Pieris brassicae 97
Pterostichus puncticollis, preying on
 wheat pests 1040
Pterostichus sericeus, preying on
Eurygaster integriceps 29, 1040
Pthirusa, attacked by ants, in
 Colombia 839
Puccinia
 infecting
Carduus spp. 1319
Centaurea diffusa 791
Puccinia chondrilla
 against *Chondrilla juncea*, in USA
 1340
 infecting *Chondrilla juncea*
 1860, 1861, 1862
 effect of environmental factors
 788
 epidemiology 789
Puccinia jaceae, infecting *Centaurea*
diffusa 821
Puccinia melanocephala, inhibited by
Cladosporium uredinicola, in
 Australia 1548
Puccinia obtogens, infecting *Cirsium*
arvense 1851
Puccinia poarum, infecting *Tussilago*
farfara 1871
Puccinia punctiformis, infecting
Cirsium arvense 792, 821, 1850
Puccinia suaveolens, infecting *Cirsium*
arvense 1324
Puccinia xanthil, infecting *Xanthium*
pungens 787
Puccinia xanthii ambrosia-trifidae,
 infecting *Ambrosia trifida* 309,
 821
Puerto Rico
Larodectus mactans, egg parasites
 775
Pulvinaria, parasitised by *Tetrastichus*
aligarhensis, in India 1939
Pulvinaria delottoi, *Coccophagus* *cowperi*
 against, in USA 1764
Pulvinaria mesembryanthemi, *Coccophagus*
cowperi against, in USA 1764
Pyemotes, preying on *Oiketicus*
kirbyi 1171
Pyemotes herfsi, parasitising *Tribolium*
confusum 716
Pyemotes tritici, against *Solenopsis*
invicta, in USA 770
Pyemotes ventricosus, preying on
Pectinophora gossypiella 1634
Pygostolus falcatus, parasitising
Sitona spp. 59
Pyrgoides suturalis, attacking *Acacia*
saligna 795
Pyrrilla, parasitised by *Syntomosphyrum*
udaipurensis, in India 389
Pyrrilla perpusilla
 in India 1564
 parasitised by
Epipyrops melanoleuca 1564
Tetrastichus pyrrillae 1564
Pyrrhopyge pelota, infected by
Beauveria bassiana, in Argentina 1967

- Pythium*, inhibited by *Trichoderma hamatum* 101, 1128, 1924, 1993
- Pythium aphanidermatum* infecting
Lemma spp. 1362
 nematodes 2075
- Pythium monospermum*, infecting nematodes 2075
- Pythium splendens*, inhibited by *Verticillium sphaerosporum*, in Japan 1099
- Pythium sylvaticum*, inhibited by *Verticillium sphaerosporum*, in Japan 1099
- Quadraspidiotus perniciosus* biological control, review 939
Encarsia perniciosi against in Australia 438
 in Greece 1135
 infected by *Nectria aurantiicola*, in Iran 1954
- Quadraspidiotus pyri*, preyed on by *Hemisarcophaga malus*, in Bulgaria 1668
- Quercus dumosa*, grazed by goats, in USA 313
- Quercus havardii*, attacked by *Hemileuca* sp., in USA 797
- Rabbit, see *Oryctolagus cuniculus*
- Rabdophaga*, parasitised by *Platyaster* spp., in Japan 395
- Rabdophaga yanagi*, parasitised by *Synopeas* spp., in Japan 395
- Rachiplusia nu* in Argentina 1967
 infected by
Beauveria sp. 1967
Entomophthora plusiae 1967
- Rachiplusia ou* in USA 1574
 NPV, infecting *Agrotis ipsilon* 519
 parasitised by
Litomastix truncatella 1574
Meteorus autographae 1574
 preyed on by
Coleomegilla maculata 1574
Geocoris spp. 1574
Hippodamia convergens 1574
Nabis roseipennis 1574
Tropiconabis capsiformis 1574
- Radix auricularia japonica*, preyed on by *Sepedon aenescens* 1313
- Ranatra vicina*, preying on mosquitoes 1839
- Ranunculus baudauti*, attacked by waterfowl, in Denmark 831
- Raoiella indica*, predators, in India 1995
- Rape
Alternaria spp., inhibited by *Streptomyces rochei*, in India 563
Ceutorhynchus assimilis, parasitised by *Mesopolobus morys*, in Yugoslavia 562
- Raspberries
Otiophynchus sulcatus,
Heterorhabditis heliothidis against, in Australia 1098
- Rastrococcus iceryoides* in India 1172
 parasitised by
Dinocarsis sp. 1172
Metastenus concinnus 1172
Microterys flavus 1172
Tetrastichus sp. 1172
- preyed on by
Cybocephalus sp. 1172
Scymnus coccivora 1172
- Rattus*, control methods, review 1250
- Rattus rattus* infected by *Syphacia stroma*, in India 1257
 preyed on by *Bubo virginianus magellanicus*, in Chile 1252
- Ravinia lherminieri*, preying on *Musca autumnalis* 762
- Rearing
Agathis pumila 212
Amblyseius spp. 1994
Anthracorhis nemorum 1911
Apanteles tachardiae 1782
Aphidoletes aphidimyza 1400
 arthropod species in culture, in USA 429
Arzama densa 826, 1359
Beauveria bassiana 1409
Blastocrithidia triatomae 1407
Bracon brevicornis 1396, 1397
Bradyrhoea gilveolella 821
Chelonus blackburni 132
Chelonus inanis 898
Chrysoschelis loricinellae 212
Chrysopa spp. 1403, 1412, 1457
Chrysoperla carnea 1403, 1404, 1412, 1457
Coccinella septempunctata 478
Coccinellidae 432
Dacnusa sibirica 444
Didegma loricinellum 212
Diadocerus spp. 212
Elachertus argissa 212
Filipjevimeris leipsandra 1406
Galeruca rufa 1336
Hemerobius stigma 367
Heterorhabditis heliothidis 1913
Heterorhabditis spp. 1405
Hippodamia convergens 1402
Howardula husseyi 1119
 insects 1905
 mermithids 1912
Metarhizium anisopliae 1408
Muscidifurax raptor 1907
Necremnus metalari 212
Neoplectana carpocapsae 364
Neoplectana spp. 1405
Ooencyrtus ennomophagus 1411
Opius pallipes 444
Orius insidiosus 1401, 1499
Pales pavidus 873
Paratheresia claripalpis 1906
Paratriphleps laeviusculus 1401
Phytoseiulus persimilis 879
Pimpla instigator 1395
Pimpla turionellae 874, 875
Prionchulus punctatus 1902
Romanomermis culicivora 881
Semiadalia undecimnotata 1403
Sitotroga cerealella 876
Toxorhynchites amboinensis 1909
Trichogramma chilonis 1491
Trichogramma dendrolimi 216
Trichogramma euproctidis 1908
Trichogramma exiguum 1491
Trichogramma perkinsi 362, 363
Trichogramma pretiosum 1493, 1640
Trichogramma spp. 340, 876, 877, 1398
Trichogrammatoidea bactrae 565
Trichogrammatoidea sp. 1901
Trichopoda pilipes 1399
- Typhlodromus californicus* 879
Ytthus mundulus 1401
Venturia palmaris 188
- Reduviolus alternatus*, preying on sunflower pests 89
- Reesimeris jacutensis*, infecting *Aedes communis* description 1434
- Reovirus*, infecting *Lymantria dispar* 1982
- Reticulitermes hesperus*, preyed on by *Lomamyia latipennis*, in USA 498
- Retracrus elaeis*, controlled by *Hirsutella thompsonii*, in Colombia 1704
- Reunion
 biological control, report 1996
Diaphorina citri, *Tetrastichus* spp. against 643
Trioza erytraeae, *Tetrastichus* spp. against 643
- Rhabdoscelus obscurus*, biological control, in Western Samoa 187
- Rhagium inquisitor* parasitised by *Zaommoencyrtus emetzi*, in USSR 1421
- Rhagoletis*, parasitised by *Coptera* spp., in North America 393
- Rhagoletis pomonella* in USA 1663
 parasitised by
Biosteres melleus 1663
Diachasma alboeum 1663
Opius canaliculatus 1663
Psilus sp. 1663
- Rhinocyllus conicus* against *Carduus* spp. in Argentina 1846
 in Canada 1319
 in USA 300, 301, 821, 1320, 1321
 against *Onopordum* sp. 300
 effects of crowding 1848
 predators 1321
 sampling techniques 1847
- Rhinoncus pericarpus*, attacking *Rumex* spp. 1862
- Rhipicephalus*, preyed on by *Buphagus africanus*, in South Africa 774
- Rhipicephalus appendiculatus*, preyed on by *Buphagus erythrorhynchus*, in South Africa 289
- Rhizoctonia*, suppressive soils 946
- Rhizoctonia solani* in Canada 556
 in China 1240
 in Colombia 1128
 in Israel 585, 1246
 in Japan 1099
 in Taiwan 1094
 inhibited by
Aphelenchus avenae 66, 1126, 1127
Bacillus sp. 1094
Boletus sp. 1240
Gliocladium virens 556
Penicillium spp. 1094
Trichoderma hamatum 101, 1128, 1924
Trichoderma harzianum 585, 1246
Trichoderma spp. 1094, 1993
Verticillium sphaerosporum 1099
- Rhizoglyphus echinopus*, parasitising *Curculio elephas* 636
- Rhizopus nodosus*, inhibiting *Phytophthora nicotianae* parasitica 1657

- Rhododendrons**
Sciopithes obscurus, parasitised by
Dolichotarsus sp., in USA 583
- Rhodothemis rufa**, preying on mosquitoes 1271
- Rhopalicus**, parasitising *Dendroctonus frontalis* 1750
- Rhopalosiphum maidis**
 in Canada 11
 in India 927, 1962
 in Peru 1959
 natural enemies, effect of insecticides 33
 parasitised by
Aphidius colemani 1959
Aphidius matricariae 1959
Aphidius uzbekistanicus 927
Lysiphlebus testaceipes 1959
 preyed on by
Aiolocaria sp. 1962
Altica sp. 1962
Coleomegilla maculata lengi 11
Epistrophe griseocincta 1962
Henosepilachna sp. 1962
Hippodamia tredecimpunctata tibialis 11
- Rhopalosiphum padi**, natural enemies, effect of insecticides 33
- Rhopus sacchari**, synonym 1935
- Rhorus bartelti**, parasitising *Pikonema alaskensis*, description 1419
- Rhorus gaspesianulus**, parasitising *Pikonema alaskensis*, description 1419
- Rhus**, *Sellepte balteata* against, in Bermuda 1475
- Rhyacionia buoliana**
 in Argentina 452
 in Canada 915, 1971
 in France 213
Parasierola nigrifemur against 452
 parasite complex, effect of pollution 213
 parasitised by *Oedemopsis scabricula* 915
- Rhyacionia frustrana**
Compoplex frustranae against 701
 in USA 214, 701
 parasitised by
Compoplex frustanae 214
Eurytoma pini 214
Lixophaga mediocris 214
- Rhynchaenus distans**, attacking *Acroptilon repens* 790
- Rhynocoris iracundus**, preying on *Lymantria dispar* 670
- Rhyssa lineolata**, parasitising *Sirex noctilio* 1195
- Rhyssa persuasoria persuasoria**, parasitising *Sirex noctilio* 1195
- Rhyssomatus marginatus**, against *Sesbania punicea*, in South Africa 1868
- Rhytisternus miser**, preying on *Inopus rubriceps* 1578
- Rhyzobius lophanthae**, preying on *Aonidiella aurantii* 1147
- Rhyzobius satellus**, against *Aspidiotus destructor*, in New Hebrides 1187
- Rhyzobius ventralis**, preying on *Paropsis charybdis* 691
- Ribeiroia marini guadeloupensis**, against *Biomphalaria glabrata*, in Guadeloupe 1288
- Rice**
 biological pest control, in Peru 1986
- Chilo auricilius**, parasite tests 1030
- Chaphalocrocis medinalis**
Bacillus thuringiensis against, in China 1560
 infected by GV, in China 1559
 parasites, in Japan 527
 parasitised by
Chorinaeus facialis, in China 894
Trichogramma sp., in India 20
 preyed on by ants, in Philippines 19
- Cofana spectra**, infected by *Penicillium oxalicum*, in India 1035
- hoppers**
 biological control, in S.E. Asia 521
 natural enemies, in Taiwan 523, 524
 parasites, in Philippines 22, 525
 predaceous Heteroptera, in Philippines 522
- Hydrellia griseola**, braconid parasites in USSR 17
- Hydrellia philippina**, parasitised by *Chaenusa* sp., in India 1034
- Leptocoris oratorius**
 parasitised by *Gryon flavipes*, in Philippines 1562
 preyed on by *Conocephalus* spp. in Papua New Guinea 21
- Lissorhoptrus brevirostris**, fungi against, in Cuba 529
- Mythimna separata**
Apanteles ruficrus against, in Australia 1025
 parasites, in India 528
- Nephotettix cincticeps**, egg parasites, in Korea 1557
- Nephotettix** spp., egg parasites, in Thailand 1028
- Nilaparvata lugens**
 egg parasites, in Thailand 1028
 natural enemy complex, in Philippines 1027
 parasitised by *Haplogonatopus* sp., in India 1029
 preyed on by
Microvelia sp., in India 1558
Solenopsis geminata, in India 24
- Nymphula depunctalis**, infected by NPV, in India 1032
- Oediopalpa guerini**, parasitised by *Trichogramma semifumatum*, in Brazil 1561
- Orseolia oryzae**, parasites, in China 18, 1563
- Pyrrilla perpusilla**, controlled by parasites, in India 1564
- Scirpophaga incertulas**, egg parasites, in Sri Lanka 526
- Scirpophaga innotata**, parasitised by *Telenomus rowani*, in Australia 1033
- Sogatella furcifera**, egg parasites, in Thailand 1028
- Sogatodes orizicola**, natural enemies, in Cuba 23
 spider fauna, in Philippines 1565
- Steneotarsonemus spinki**, natural enemies, in Taiwan 1037, 1038
- Susamia exigua**, parasites, in Solomon Islands 955
- Rickettsiella chironomi**, infecting *Chironomus* spp. 1823
- Ritsemia nanus**, parasitised by *Hadzhibeylia physococci*, in USSR 1932
- Rodolia cardinalis**
 against
 citrus pests, in USSR 1974
Icerya purchasi 426
- Rogas aligharensi**, biology 1479
- Rogas grandis**, parasitising *Amphipyra pyramidea* 1215
- Rogas laphygmae**, parasitising *Spodoptera frugiperda* 1021
- Rogas pellucens**, parasitising *Heliothis virescens* 61
- Rogas percurrens**, parasitising *Prospalta capensis* 1595
- Rogas testaceus**, parasitising *Heliothis virescens* 61
- Romania**
Apion spp., parasitised by *Triaspis* spp. 59
Brevicoryne brassicae, natural enemies, effect of insecticides 571
Eurygaster integriceps, egg parasites 532
Hyphantria cunea, infected by GV 684
Laconobia suasa, infected by NPV 913
Leucoma salicis, parasitised by *Telenomus nitidulus* 195
 lucerne pests, selective insecticides 533
Lymantria dispar, egg parasites 195
Malacosoma neustria, parasitised by *Telenomus* spp. 195
Ostrinia nubilalis, *Bacillus thuringiensis* against 517
Sitona spp., parasitised by *Pygostolus falcatus* 59
 synanthropic flies, parasites 1824
 wheat insects 27
- Romanomermis culiciorax**
 against
Culiseta incidens, in USA 734
 mosquitoes 434
 in USA 253, 268, 734
 commercial development 1790
 effect of
 age on infectivity 736
 host diet 1791
 salinity 737
 gaseous requirements 2031
 infecting
Aedes aegypti 1791
Aedes taeniorhynchus 1789
Anopheles freeborni 1789
Culex molestus 735
Culex pipiens 736, 1275, 1789
 morphometrics 2030
 mortality in shipment 1276
 mounting techniques 1393
 preyed on by *Acanthocyclops vernalis* 733
 rearing technique 881
- Romanomermis iyengari**, mounting technique 1393
- Roptrocercus barbatus**
 description 902
 parasitising
Ips cembrae 902
Polygraphus jezoensis 902
- Roptrocercus eccoptogastri**, parasitising *Dendroctonus frontalis* 1221
- Roptrocercus xylophagorum**
 parasitising *Dendroctonus frontalis* 694, 1750

- Roptrocerus xylophagorum** (contd.)
response to odours 1201
- Roses**
Macrosiphum rosae, parasites, in India 1757
Sitobion rosaeiformis, parasites, in India 1757
- Roselle**
Amrasca biguttula biguttula, spider predators, in India 1112
- Rosewood**
Phyllactinia dalbergiae, inhibited by *Cladosporium spongiosum*, in India 693
- Royal 350**
against *Meloidogyne* spp. 489
culture 488
- Rubus fruticosus**
attacked by *Hartigia albomaculata* 304
in Australia 304, 821, 1862
natural enemies 304
- Rumex**
attacked by
Apion spp. 1862
Capnodis tenebricosus 1862
Longitarsus pellucidus 1862
Rhinoncus pericarpus 1862
in France 1862
Rumex crispus, biological control 821
Rumex obtusifolius
attacked by *Gastrophysa atrocyanea*, in Japan 812
infected by *Phoma rumicicola* 1864
Rupela albinella, biological control, in Colombia 1474
Ruppia, attacked by waterfowl, in Denmark 831
Sabulodes caberata, integrated control, in USA 1169
Sacchiphantes viridis, preyed on by coccinellids, in German Democratic Republic 1755
- Safflower**
Isocolus sp., parasitised by *Sycophila emarginata*, in Iraq 901
Prospalta capensis, natural enemies, in India 1595
- St. Lucia**
Biomphalaria glabrata
controlled by *Helisoma duryi* 1311
preyed on by *Macrobrachium* spp. 1310
- Saissetia coffeae**
parasitised by
Coccophagus cowperi, in India 1733
Scutellista cyanea 1472
- Saissetia miranda**
in India 1733
parasitised by
Cephaleta brunniventris 1733
Coccophagus cowperi 1733
Microterys flavus 1733
- Saissetia oleae**
in France 1689
in Italy 181, 1162, 1167, 1682, 1683, 1684, 1688
in Greece 182
in Morocco 1685
in Spain 171
integrated control 1167
Metaphycus bartletti against 181, 1161
Metaphycus helvolus against 171, 1161
- parasitised by
Coccophagus lycimnia 1682, 1683
Metaphycus spp. 182, 1682, 1683, 1684
Scutellista cyanea 1162, 1682, 1683, 1684
Scutellista nigra 1685
Tetrastichus sp. 1682, 1683
preyed on by
Chilocorus bipustulatus 1683
Chrysoperla carnea 1689
Exochomus quadripustulatus 1683
Sanctanus fasciatus, attacking *Cyperus rotundus* 311
Sanguinicola, predators, in USSR 782
Salsola australis, attacked by *Coleophora parthenica*, in USA 1329
Salsola pestifer, insects against, in Canada 924, 926
Salix ranjitus, preyed on *Chilo partellus* 14
Salvinia cucullata, biological control, in Thailand 1467
Salvinia molesta
Cyrobagous singularis against 1361, 1872
in Australia 1361, 1872
in Brazil 821
in Papua New Guinea 821
Paulinia acuminata against 1361
Samea multiplicatis against 1361
Samea multiplicatis, against *Salvinia molesta*, in Australia 1361
Sameodes albiguttalis
against *Eichhornia crassipes*
in Australia 1361, 1874
in Sudan 824
in USA 1356, 1873
Samia cynthia ricini
Exorista sorbillans, parasitised by *Nesolynx thymus*, in Bangladesh 1780
not infected by *Mythimna separata* NPV 1261
Sarcocystis cernae, infecting *Microtus arvalis* 241
Sarcocystis dispersa, infecting *Mus musculus* 243
Sarcocystis sebeki, infecting *Apodemus sylvaticus* 242
Sarcophaga, parasitising *Heliothis virescens* 61
Sarcophaga albiceps, parasitising *Spodoptera litura* 1648
Sarcophaga exuberans, parasitising *Zonocerus variegatus* 1214
Sarotherodon aureus, against organic detritus, in Israel 835
Sarotherodon mossambica, preying on *Biomphalaria glabrata* 781
- Saudi Arabia**
Bombyliidae 431
insect fauna 932
mosquitoes, preyed on by *Aphanius dispar* 248
Papilio demoleus, mortality factors 641
stored products insects, parasitised by *Bracon* spp. 1769
Scaeva pyrastris
parasites 459
prey consumption 983
preying on *Aphis gossypii* 102
Scambus hispae, parasitising *Acrobasis juglandis* 166
Scapanes australis, *Baculovirus* sp., against, in Solomon Islands 955
- Scarabaeidae**
environmental influence 783
from Morocco 784
Scarites, against *Heteronychus arator*, in New Zealand 50, 51
Scathophaga stercoraria, preying on *Hydrotia irritans* 281
- Scelio**
parasitising *Locusta migratoria* 1541
taxonomy 903
Scenedesmus, inhibiting aquatic weeds 1883
Schistocerca cancellata
in Peru 1654, 1986
infected by *Hexameris acridiorum* 1654
parasitised by *Acridiophaga caridei* 1654
Schistocerca gregaria, preyed on by *Trox procerus*, in Saudi Arabia 932
Schistosoma mansoni
biological control of vectors 287
inhibited by *Cercaria blukwa*, in Tanzania 780
Schizaphis graminum
in Argentina 1042
in USSR 31, 32
parasitised by
Aphelinus asychis 1042
Aphelinus toxopteraphidis 31
Diaeretiella rapae 31
preyed on by
Aeolothrips intermedius 31
Aphidoletes aphidimyza 31
Leucopis spp. 31
Orius spp. 31
Scymnus nigrinus 31
Schizocosa duplex, preying on mosquitoes 1786
Sciopithes obscurus, parasitised by *Dolichotarsus* sp., in USA 583
Scirpophaga incertulas
in Sri Lanka 526
parasitised by
Telenomus dignus 526
Tetrastichus israeli 526
Tetrastichus schoenobii 526, 2014
Trichogramma minutum 526
Scirpophaga innotata, parasitised by *Telenomus rowani*, in Australia 1033
Scirpophaga nivella, parasitised by *Sturmipops inferens* 1016
Sciurus palmarum, infected by *Syphacia stroma* 1257
Sciurus vulgaris, preyed on by *Accipiter gentilis*, in Sweden 1254
Sclerodermus, parasitising *Apate monachus* 1713
Sclerodermus turkmenicus, parasitising tree-trunk pests 1199, 1200
Sclerotinia minor
inhibited by
Sporidesmium sclerotivorum, in USA 619
Teratosperma oligocladium 1129
Trichoderma harzianum 1919
Sclerotinia sclerotiorum
inhibited by
Coniothyrium minitans 490, 1518
Gliocladium deliquescens 1518
Penicillium vermiculatum 1518
Sporidesmium sclerotivorum, in USA 619
Teratosperma oligocladium 1129

- Sclerotinia trifoliorum*, inhibited by *Teratosperma oligocladum* 1129
- Sclerotium cepivorum*
controlled by *Trichoderma harzianum*, in Egypt 569
inhibited by *Sporidesmium sclerotivorum*, in USA 619
Teratosperma oligocladum 1129
- Sclerotium rolfii*
inhibited by *Trichoderma hamatum* 1128
Trichoderma spp. 1993
Trichoderma viride against, in Brazil 515
- Scolia flavifrons*, preying on onion pests 91
- Scolothrips indicus*, preying on cassava mites 1591
- Scolothrips longicornis*, effect of pesticides 856
- Scolothrips sexmaculatus*, preying on *Tetranychus urticae*, effect of insecticides 1159
- Scolytus multistriatus*
in UK 1208
in USA 1520
infected by *Phomopsis oblonga* 1208
parasitised by *Dendrosoter protuberans* 1520
Entedon leucogramma 1520
susceptible to *Heterorhabditis bacteriophora* 1209
Neoapectana carpocapsae 1209, 1914
- Scolytus scolytus*
infected by *Phomopsis oblonga*, in UK 1208
susceptibility to fungal pathogens 683
- Scopulariopsis brevicaulis*, infecting *Curculio elephas* 636
- Scotolinx*, from India, taxonomy 389
- Scribipalpula absoluta*
in Peru 1618
parasitised by *Apanteles* sp. 1618
Copidosoma sp. 1618
Cremastus sp. 1618
Pristomerus sp. 1618
- Scurula cordifolia*, parasitised by *Viscum loranthei*, in India 1365
- Scutellista cyanea*
against soft scales, in USSR 709
effect of insecticides 1676
parasitising *Parasaissetia nigra* 1179, 1681
Saissetia coffeae 1472
Saissetia oleae 1162, 1682, 1683, 1684
- Scutellista nigra*
effect of insecticides 1676
parasitising *Saissetia oleae* 1685
- Scutellonema*, infected by *Bacillus penetrans*, in South Africa 1547
- Scymnodes lividigaster*, defensive behaviour 479
- Scymnus*
preying on *Aphis gossypii* 103
Brachycaudus helichrysi 567
cotton pests 601, 1106
Pentalonia nigronervosa 1650
- Scymnus coccivora*, preying on *Rastrococcus iceryoides* 1172
- Scymnus interruptus*
preying on clover pests 1052
cotton pests, seasonal abundance 600
- Scymnus nigrinus*
preying on *Diuraphis noxia* 31
Schizaphis graminum 31
- Semiadalia undecimnotata*
artificial diet 1403
effect of pirimicarb 854
fecundity 1498
feeding behaviour 480
preying on *Aphis gossypii* 103
- Senecio jacobaeae*
attacked by *Tyria jacobaeae*, interactions 306, 2071
in Australia 39, 818, 821, 1862
in Canada 925, 1971
in USA 1333
Longitarsus jacobaeae against 818, 821, 1333, 1862
Tyria jacobaeae against 1333
- Sepedon aenescens*, effect of temperature 1313
- Sepedon fuscipennis*, parasitised by *Trichogramma* spp. 777
- Serangium parcesetosum*, against *Dialeurodes citri*, in USSR 1974
- Sericothrips variabilis*, preyed on by *Orius insidiosus* 1526, 2056
- Serology, in predator-prey studies, symposium 346
- Serratia marcescens*
against *Trichoplusia ni* 98
effect of tree sap 1720
infecting *Orthaga euadrusalis* 1173
- Sesame
Spilosoma obliqua, *Bacillus thuringiensis* against, in India 1074
- Sesamia cretica*
in Egypt 1023
in Iran 1541
parasitised by *Paracentrobia* spp. 1023
Platytenomus hylas 1542, 2013
Telenomus spp. 1023, 1541
- Sesamia nonagrioides*, parasitised by *Telenomus* sp., in Iran 1541
- Sesamia inferens*
biological control, in Pakistan 510
parasitised by *Sturmiopsis inferens* 1016
- Sesamia uniformis*, biological control, in Pakistan 510
- Sesbania punicea*
natural enemies, in Argentina 1318
Rhyssomatus marginatus against, in South Africa 1868
- Sextius virescens*, natural enemies, in Australia 692
- Sida cordifolia*
Acrocerops orthostacta, parasitised by *Paratrachogramma giraulti*, in India 400
- Sida spinosa*, infected by *Fusarium lateritium*, in USA 1856
- Sigara lateralis*, preying on mosquitoes 1839
- Simulium*
Bacillus thuringiensis israelensis against, in Canada 757
infected by *Pleistophora watsoni* 1472
- Simulium angustitarse*, infected by microsporidia, in USSR 756
- Simulium argyreatum*, infected by microsporidia, in USSR 756
- Simulium damnosum*
in Nigeria 1817
infected by *Amblyospora* spp. 1817
Culicospira dampni 1817
Isomermis lairdi 1288
Thelohania fibrata 1817
Vavraia multispora 1817
mermithids against, limitations 286
- Simulium equinum*, infected by *Gastromermis metae*, in UK 1951
- Simulium hargreavesi*, infected by *Vavraia multispora*, in Nigeria 1817
- Simulium kerteszi*, infected by microsporidia, in USSR 756
- Simulium latizonum*, infected by microsporidia, in USSR 756
- Simulium longistylatum*, infected by *Microsporidium* sp., in Canada 755
- Simulium metallicum*
infected by *Mesomermis guatemalae*, in Guatemala 1435
Neomesomermis travisi, in Costa Rica 408
- Simulium ochraceum*, *Bacillus thuringiensis israelensis* against, in Guatemala 759
- Simulium ornatum*
infected by *Gastromermis metae*, in UK 1951
microsporidia, in USSR 756
- Simulium panamense*, infected by *Neomesomermis travisi*, in Costa Rica 408
- Simulium pseudequinum*, infected by microsporidia, in USSR 756
- Simulium pugetense*, *Bacillus thuringiensis israelensis* against, in USA 1297
- Simulium ruficorne*
in Nigeria 1817
infected by *Coelomyxidium simuli* 1817
Vavraia multispora 1817
- Simulium tuberosum*, *Bacillus thuringiensis israelensis* against, in USA 1297
- Simulium venustum*, *Bacillus thuringiensis israelensis* against, in USA 1297
- Simulium verecundum*
Bacillus thuringiensis israelensis against in USA 1297
susceptibility to *Bacillus thuringiensis israelensis* 1296
- Simulium vittatum*
Bacillus thuringiensis israelensis against 277, 1819
infected by *Tuzetia debaisieuxi*, in Canada 1818
Neoapectana carpocapsae against, in USA 1295
susceptibility to *Bacillus thuringiensis israelensis* 758, 1296
- Sinophorus xanthostomus*, parasitising *Agrotis segetum* 598
- Siphona geniculata*, parasitising *Tipula paludosa* 1054
- Siphoninus phillyreae*, parasitised by *Encarsia pseudopartenopea*, in Italy 384
- Sirex noctilio*
biological control, cost-benefit analysis 427
in Australia 427, 1754, 1983

Sirex noctilio (contd.)

- in New Zealand 1195, 1196
- infected by *Deladenus siricidicola* 1196
- parasitised by
 - Guiglia schauinslandi* 1195
 - Ibalia leucospoides* 1195
 - Megarhyssa nortoni* 1195
 - Rhyssa* spp. 1195

Sitobion avenae

- Aphidius* spp. against 1041
- effect of colour form on parasitism 531
- in Belgium 1928
- in Canada 33
- in Chile 1041
- in France 2038
- in USSR 32
- infected by *Conidiobolus obscurus* 2038

Monoclonus nervosus against 1041

- parasitised by
 - Aphidius frumentarius* 1928
 - Aphidius rhopalostphi* 531
 - Aphidius uzbekistanicus* 32
 - Aphidius* spp., effect of insecticides 33
- Praon volucre* 32, 531
- preyed on by

- Chrysoperla carnea* 32
- Coccinella septempunctata* 32
- Hippodamia variegata* 32
- Malachius geniculatus* 32
- Nabis punctatus* 32
- Orius niger* 32
- Platypalpus pictitarsis* 32
- Sphaerophoria scripta* 32

Sitobion roseaeformis

- in India 927, 1757
- parasitised by
 - Aphelinus* sp. 1757
 - Aphidius rosae* 1757
 - Ephedrus plagiator* 927

Sitona parasitised by *Pygostolus falcatus*, in Romania 59**Sitona hispidulus**

- in USA 57, 1053
- Patasson lameerei* against 1053
- preyed on by
 - Abacids permundus* 57
 - Evarthrus sodalis* 57
 - Gryllus pennsylvanicus* 57
 - Harpalus pensylvanicus* 57

Sitona humeralis

- in Australia 39
- in New Zealand 43, 536
- infected by *Pleistophora* sp. 536
- parasitised by *Perilitus coccinellae* 43
- preyed on by *Sturnus vulgaris* 43, 536

Sitotroga, parasitised by *Bracon* spp., in Saudi Arabia 1769**Sitotroga cerealella**

- cold stored eggs, for rearing predators 1412
- rearing host for *Trichogramma* spp. 362, 876, 1398
- rearing technique 876, 1398

Sloes

- Sphaerolecanium prunastri*, parasite complex, in Poland 1142

Smicronyx commixtus, attacking *Iva xanthifolia* 813**Smicronyx scopis**, attacking *Cuscuta lupuliformis* 337**Sminthurus viridis**, biological control, in Australia 39, 1051**Smittium**, infecting mosquitoes 258**Snellenius manilae**, parasitising

- Spodoptera exigua* 1958

Snellenius radicalis, from Taiwan 1958**Sogatella furcifera**

- in Philippines 22, 525

- in Taiwan 523, 524

- in Thailand 1028

parasitised by

- Anagrus optabilis* 524

- Anagrus* sp. 1028

- Oligosita* sp. 1028

Sogatodes cubanus, preyed on by

- Tytthus parviceps*, in Cuba 23

Sogatodes orizicola

- in Cuba 23

- parasitised by *Anagrus perforator* 23

- preyed on by *Tytthus parviceps* 23

Solanum carolinense

- attacked by *Frumenta nundinella* 1867

- in USA 1347, 1867

- virus against 1347

Solanum elaeagnifolium, *Nothanguina*

- phyllobia* against, in USA 821

Solenopsis geminata

preying on

- Cnaphalocrocis medinalis* 19

- Diabrotica* spp. 1125

- Nilaparvata lugens* 24

Solenopsis invicta

- in USA 770, 1308, 1976

preyed on by

- Epiaeschna heros* 1308

- Libellula axilena* 1308

preying on

- Curculio caryae* 1146

- Diatraea saccharalis* 1015

- Heliothis virescens* 1642

- Pyemotes tritici* against 770

Solenopsis richteri, biological control, in USA 1976**Solidago altissima**, attacked by

- Ctenoplusia albostrata*, in Japan 456

Solidago canadensis, biology, in

- Canada 315

Solomon Islands

- Amblypelta cocophaga*, preyed on by

- Oecophylla smaragdina* 659

- Brontispa longissima*, biological control 1702

- Cyclas* sp., fungi against 955

- Nilaparvata lugens*, preyed on by

- Cyrtorhinus* sp., effect of insecticides 955

- Pantorhytes biplagiatus*, preyed on by

- Oecophylla smaragdina* 659

- Scapanes australis*, *Baculovirus* sp. against 955

- Susumia exigua*, parasites 955

Sonatochlora provocans, preying on

- Solenopsis invicta* 1308

Sonchus arvensis, natural enemies

- against, in Canada 1973

Sorghums

- Amsacta moorei*, infected by

- NPV, in India 520

- integrated pest control, review 16

- Mythimna separata*, *Apanteles ruficornis*

- against, in Australia 1025

- Sesamia cretica*, egg parasites, in Egypt 1023

South Africa

- Acacia longifolia*, *Trichilogaster*

- acaciae longifoliae* against 1318

- Amblyseius finlandicus*, taxonomy 406

- Antonina graminis*, encyrtid

- parasites 1577

- Aonidiella aurantii*, parasitised by

- Comperiella bifasciata*, effect of insecticides 639

- Aphodius* spp., descriptions 1429

- Chalcidoidea 917

- Heliothis armigera*

- egg parasites 1639

- integrated control 175

- Hylotrupes bajulus*, parasitised by

- Ycaploca evansi* 721

- Metaphycus asterolecanii*, taxonomy 900

- Numicia viridis*, egg parasites 9

- Opuntia* spp., biological control 821

- Phthorimaea operculella*, biological control 108, 1620

- Sesbania punicea*, *Rhyssomatus*

- marginatus* against 1868

- sugarcane nematodes, infected by

- Bacillus penetrans* 1547

- ticks, preyed on by *Buphagus* spp. 289, 774

- Toxoptera citricida*, integrated control 175

- Trioxa erytraea*, natural enemies 917, 1156

Soyabeans

- Anticarsia gemmatilis*

- NPV against, in USA 1581

- parasitised by

- Euplectrus putleri*, in USA 555

- Meteorus autographae*, in USA 1062

- conference 70

- Heliothis zea*, parasitised by

- Apanteles marginiventris*, in USA 1062

- Heliothis* spp.

- controlled by *Trichogramma* sp., in Australia 1059

- pest management, in USA 72, 73

- insect fauna, in Brazil 74, 75

- Nezara viridula*

- controlled by *Trissolcus*

- basalis*, in Australia 1059

- predator assessment, in USA 1060

- Orius insidiosus*, seasonal cycles, in USA 1061

- Plathypena scabra*, parasitised by

- Apanteles marginiventris*, in USA 1062

- predator-prey interactions, precipitin test 1058

- predatory fauna, in USA 145, 1580

- Pseudoplusia includens*

- infected by *Entomophthora*

- gammae*, in USA 1582

- parasitised by *Apanteles*

- marginiventris*, in USA 1062

- Rachiplusia nu*, infected by

- Beauveria* sp. 1967

- spider communities, in USA 76

Spain

- Aelia rostrata*, egg parasites 30

- citrus scales, biological control 171

Spain (contd.)

- dung beetles 1315
Epichoristodes acerbella, parasites 1245
Microtus cabreræ, infected by *Paranoplocephala mascomai* 240
Oryctolagus cuniculus, predators 1251
pear pests, integrated control 164
Prays oleæ, parasites 646, 1163
Syrphidae 1450
Trialeurodes vaporariorum, *Encarsia tricolor* against 580
Spalangia, parasitising *Musca* spp., density-dependent model 2061
Spalangia cameroni
foraging strategy 2045
parasitising *Musca domestica* 1300
Spalangia drosophilæ
development, effect of host species 1301
parasitising *Musca domestica* 1300
Spalangia endius
against *Musca domestica*, in USA 1298, 1299
foraging strategy 2045
parasitising
Musca domestica 1300
Musca sorbens 1303
Spalangia fallax, parasitising *Stomoxys* spp. 1996
Spalangia nigra, parasitising *Musca domestica* 1300
Spalangia nigroaenea, parasitising *Musca domestica* 1300
Spalangia seyrigi, parasitising *Stomoxys* spp. 1996
Spalpis lemolea, preying on *Phenacoccus manihoti* 87, 88, 1069
Spallanzania hebes, parasitising *Agrotis* spp. 62
Spaniopis japonicus, parasitising *Apanteles liparidis*, description 391
Spathimeigenia erecta, parasitising *Neodiprion pinetum* 705
Spathius benefactor, parasitising *Leperisinus* spp. 682
Spathius pallidus, parasitising *Dendroctonus frontalis* 694, 1750
Sphaerodema urinator, preying on mosquitoes 1839
Sphaerolecanium prunastri in Poland 1142
parasitised by
Discodes coccophagus 1142
Metaphycus silvestrii 1142
Microterys hortulanus 1142
Sphaeronaemella helvællæ, inhibiting *Helminthosporium* sp. 1471
Sphaerophoria macrogaster, parasitising *Melanaphis sacchari* 1446
Sphaerophoria menthastris, preying on onion aphids 91
Sphaerophoria rueppellii, preying on *Aphis gossypii* 102
Sphaerophoria scripta
oviposition 982
parasites 459
prey consumption 983
preying on
Aphis gossypii 102
clover pests 601
Sitobion avenæ 32
Sphaerotheca fuliginea, inhibited by *Ampelomyces quisqualis*, in Norway 577

Spikenard

- Elasmotethus atricornis*, parasitised by *Euclytia flava*, in USA 209
Spilocaria bisSELLata
preying on
Aphis craccivora 1064, 1962
Aphis sp. 1456
Spilochalcis
parasitising
Bucculatrix thurberiella 1644
Diadegma sp. 469
Oiketicus kirbyi 1171
Spilochalcis ruffinellii, parasitising *Campoletis grioti* 518
Spilonota lechriaspis, parasitised by *Lycorina spilonotæ*, in China 1420
Spilonota ocellana, parasitised by *Oedemopsis scabricula*, in Canada 915
Spilopsyllus cuniculi, parasitising *Oryctolagus cuniculus* 237, 238, 239, 1776
Spilosoma obliqua
Bacillus thuringiensis against, in India 1074
susceptibility to NPV 1063
Paecilomyces farinosus 1507
Spinococcus calluneti, parasitised by *Prochiloneurus bolivari*, in Poland 1449
Spiroplasmas, infecting *Galleria mellonella* 724
Spodoptera
parasitised by
Euplectrus platyhypenæ 2011
Trichodischia soror, in South America 418
viruses against, safety 951
Spodoptera eridania, virus bioassay 870
Spodoptera exempta, infected by NPV 1512
Spodoptera exigua
in Cyprus 612
in Taiwan 1958
in Thailand 1467
in USSR 1637
infected by NPV 1445
parasitised by
Chelonus formosanus 1958
Snellenius manilæ 1958
susceptibility to
Bacillus thuringiensis 1645
Neoaplectana carpocapsæ 483
Spodoptera frugiperda
Bacillus thuringiensis against 1555, 1605
biological control 615, 616
in Argentina 1967
in Brazil 518
in Guadeloupe 1554
in Nicaragua 1021
in Peru 1555
in USA 614, 615, 616, 1605
infected by
Hexameris sp. 1021
Nomuraea rileyi 1967
Vairimorpha necatrix 1506
parasitised by
Apanteles marginiventris 518
Archytas incertus 518
Archytas marmoratus 1554, 1555
Campoletis grioti 518
Chelonus insularis 1021
Euplectrus sp. 518
Lespesia archippivora 1021, 1554
Lespesia sp. 518
Rogas laphygmae 1021

- Winthemia* sp. 1555
preyed on by *Doru taeniatum* 1021
susceptibility to *Bacillus thuringiensis kurstaki*, effect of insecticides 345
symposium 614
virus bioassay 870
Spodoptera littoralis
Bacillus thuringiensis against 1111, 1472
Beauveria bassiana against 1472
in Cyprus 612
in Egypt 133, 592, 593, 600, 898, 1111, 2003, 2004
in Israel 151, 152
infected by NPV, effect of age 1514
parasitised by
Barylypa humeralis 592
Chelonus inanitus 133, 592, 612, 898, 2003, 2004
Exorista larvarum 592
Hyposoter didymator 612
Meteorus unicolor 612
Microplitis rufiventris 133, 592, 612
Peribaea orbata 592
Zele chlorophthalma 592
predators, seasonal abundance 600
preyed on by spiders 151, 152
susceptibility to
Bacillus thuringiensis 1645
Nomuraea rileyi 146
Paecilomyces fumosoroseus 146
Spodoptera litura
in India 574, 606, 1648
infected by NPV 1513
NPV against 574, 606
parasitised by *Sarcophaga albiceps* 1648
susceptibility to *Bacillus thuringiensis* 613
Spodoptera ornithogalli, parasitised by *Euplectrus platyhypenæ*, food consumption 1066
Spodoptera praefica
in USA 60
preyed on by
Geocoris spp. 60
Nabis spp. 60
Orius sp. 60
Spodisium sclerotivorum, inhibiting *Sclerotinia* spp. 619
Sprouts
Plutella xylostella, controlled by *Trichogramma* spp., in Netherlands 1601
Spruce
aphids, syrphid predators, in Czechoslovakia 1227
Choristoneura fumiferana, *Bacillus thuringiensis* against, in Canada 1228
Cinara pilicornis, infected by *Entomophthora* sp., in UK 224
Pikonema alaskensis, parasites, in USA 1419
Pissodes strobi, preyed on by *Lonchaea corticis* 222
Sri Lanka
Helopelis antonii, natural enemies 1692
mosquitoes, controlled by
Bacillus thuringiensis israelensis 1814
Scirpophaga incertulas, egg parasites 526
tea pests, biological control 1183

- Staphylinidae**, preying on cereal aphids, in Sweden 1043
- Staphylococcus saprophyticus**, effect of tree sap 1720
- Stegasta basqueella**, parasitised by *Invreia* spp., in USA 1424
- Stegobium paniceum**
in India 141
in Japan 720
parasitised by *Cephalonomia gallicola* 720
- Stegopterna**, *Bacillus thuringiensis israelensis* against, in Canada 757
- Stelidota geminata**, parasitised by *Microctonus nitidulidis*, in USA 122
- Stemmatosteres primus**, parasitising *Antonia graminis* 1577
- Stenoteiarsonemus spinki**, natural enemies, in Taiwan 1037, 1038
- Stethorus**
preying on
cotton aphids 598
Tetranychus spp. 598
- Stethorus punctillum**, preying on *Eotetranychus pruni* 1629, 1671
- Stethorus punctum**
preying on
apple pests 1140
Panonychus ulmi 160
- Stictopisthus**, parasitising *Apanteles cerialis* 650
- Stigmella malella**, estimation of parasitism 352
- Stomatotachina porteri**, parasitising *Ormiscodes rufosignata* 451
- Stomoxys calcitrans**
biological control, in Reunion 1996
infected by *Heterotylenchus crassirostris*, in India 1438
pathogens, bibliography 282
predators, in Uganda 1826
- Stomoxys nigra**
biological control, in Reunion 1996
integrated control, in Mauritius 1825
- Strathmorrhopa aphotista**, infected by *Beauveria bassiana*, in Australia 689
- Strawberries**
Otiorynchus meridionalis, natural enemies, in France 584
Otiorynchus sulcatus
Heterorhabditis heliothidis against, in Australia 587, 1098
Heterorhabditis sp. against, in Netherlands 1097
Metarhizium anisopliae against, in German Federal Republic 1095
predators on, in Sweden 1623
Rhizoctonia solani, controlled by *Trichoderma harzianum*, in Israel 585
Stelidota geminata, parasitised by *Microctonus nitidulidis*, in USA 122
Tetranychus urticae, *Phytoseiulus persimilis* against, in UK 121, 1624
- Strepsiptera**
from
Africa 419
Portugal 420
USA 421
revision 420
- Streptococcus**
infecting
Epinotia aporema 537
Pectinophora gossypiella 128
- Streptomyces**, inhibiting *Macrophomia phaseolina* 84
- Streptomyces culicidicus**, infecting mosquitoes, description 742
- Streptomyces olivaceus**, inhibiting *Alternaria alternata* 37
- Streptomyces rochei**, inhibiting *Alternaria* spp. 563, 1593
- Striga asiatica**, attacked by *Precis orithya minagara*, in Indonesia 836
- Strigiformes**, in North America 1255
- Strix aluco**, infected by *Sarcocystis* sp. 244
- Strongylogaster impressata**, attacking *Pteridium aquilinum* 819
- Strongylogaster multincta**, attacking *Pteridium aquilinum* 819
- Sturmia inconspicua**, parasitising *Hyblaea pueria* 1213
- Sturmiopsis inferens**
biology 1016, 1017
effect of temperature 2017
parasitising
Acigona steniellus 1017
Chilo auricilius 1017
Chilo infuscatellus 1017
- Sturnus cineraceus**, preying on *Leucoma candida* 1205
- Sturnus vulgaris**
preying on
Operophtera brumata 1206
Sitona humeralis 536
Tortrix viridana 1206
- Suaris nanus**, preying on olive pests 180
- Subcoccinella vigintiquattuor punctata**, integrated control, in Romania 533
- Succinea putris**, parasitised by *Pherbellia punctata*, in Switzerland 291
- Sudan**
Eichhornia crassipes, insects against 824
- Sugarbeet**
Agrotis spp., *Trichogramma* spp. against, in USSR 1598
Aphis fabae, infected by *Entomophthora fresenii*, in Switzerland 65
Heterodera schachtii, fungal pathogens, in USA 93
Pemphigus fuscicornis, preyed on by *Thaumatomyia* spp., in USSR 92
- Suillus grevillei**, inhibiting *Fusarium oxysporum* 1240
- Sumnius cardoni**, preying on *Drosicha mangiferae* 1172
- Sunflowers**
Brachycaudus helichrysi, natural enemies, in Yugoslavia 567
insect fauna, in USA 89
insect pests, natural enemies, in Australia 568
Orobancha spp., attacked by *Phytomyza orobanchia*, in USSR 335, 336
Rachiplusia nu, infected by *Entomophthora plusiae*, in Argentina 1966
- Susumia exigua**, parasites, in Solomon Islands 955
- Sweden**
Agrotis segetum, GV against 582
Aphis fabae, infected by *Erynia nouri* 413
Bezzia sp., infected by *Toxogluea variabilis* 276
cereal aphids, beetle predators 1043
forest insects, pathogens 664
Formica rufa, identification 1425
Liriomyza bryoniae, parasites 1760
Otiorynchus sulcatus, pathogens against 1096
Phytomyza syngenesiae, parasites 1760
Sciurus vulgaris, preyed on by *Accipiter gentilis* 1254
strawberry fields, spider fauna 1623
Trialeurodes vaporariorum
Anthocoris nemorum against 1086
integrated control 117
Verticillium lecanii against 1087
- Sweet Potatoes**
Cyclas sp., fungi against, in Solomon Islands 955
- Switzerland**
Aphis fabae, infected by *Entomophthora fresenii* 65
Eupoecilia ambiguella, *Bacillus thuringiensis* against 588
Hybomitra bimaculata, parasitised by *Telenomus* spp. 1304
Lobesia botrana, *Bacillus thuringiensis* against 588
lucerne aphids, infected by *Entomophthora* spp. 65
Notostira elongata, infected by *Entomophthora erupta* 1441
pear pests, integrated control 164
Succinea putris, parasitised by *Pherbellia punctata* 291
- Sycanus**, preying on *Metrogaleruca obscura* 307
- Sycanus leucomesus**, parasitising *Cephanodes hylas* 654
- Sycophila emarginata**, parasitising *Isocolus* sp., description 901
- Sycophila gilva**, parasitising oak cynipid description 901
- Sylepta derogata**
in India 597
parasitised by
Apanteles sp. 597
Brachymeria sp. 597
Mesochorus sp. 596
Xanthopimpla sp. 597
susceptible to *Paecilomyces farinosus* 1507
- Sylepta ruralis**, infected by *Pleistophora syleptae*, in Poland 912
- Syllepte balteata**, against *Rhus* spp., in Bermuda 1475
- Symphorobius elegans**, preying on *Cryptococcus fagisuga* 208
- Symphorobius sanctus**, effect of pesticides 852
- Symphoromyia hirta**, infected by *Erynia ithacensis*, in USA 1827
- Sympiesis**, parasitising *Phyllonorycter blancardella*, effect of insecticides 1890
- Sympiesis albiventris**, parasitising *Parapandemis chondrillana*, description 1423
- Sympiesis bimaculatipennis**, parasitising *Phyllonorycter crataegella* 623

- Sympiesis grunini*, parasitising poplar pests, description 1423
- Sympiesis lepida*, description 1423
- Sympiesis lucida*, parasitising *Apanteles* sp., description 1423
- Sympiesis marylandensis*, parasitising *Phyllonorycter crataegella* 623
- Sympiesis sericeicornis*, parasitising *Phyllonorycter blancardella* 623
- Synacanthotermes*, preyed on by *Megaponera foetens*, in Kenya 1653
- Synanthedon salmachus* in New Zealand 1625 infected by
- Beauveria bassiana* 1625
 - Pacilomyces farinosus* 1625
 - Verticillium lecanii* 1625
- parasitised by
- Diadegma* sp. 1625
 - Xanthocryptus novozealandicus* 1625
- Synanthedon tipuliformis*, *Neoplectana bibionis* against, in Australia 587, 1626
- Syncephalastrum racemosum* infecting
- Leptocoris acuta* 1031
 - Nilaparvata lugens* 1031
- Synclita obliteralis*, attacking *Hydrilla verticillata* 1356
- Synharmonia conglobata*, preying on aphids, community groups 2060
- Synopeas*, parasitising *Rabdophaga yanagi*, descriptions 395
- Syntomeida epilais jucundissima*, *Bacillus thuringiensis* against, in USA 712
- Syntomopus*, parasitising *Procecidochares utilis* 1334
- Syntomosphyrum anomalococci*, parasitising *Anomalococcus crematogastri*, description 389
- Syntomosphyrum udaipurensis*, parasitising *Pyrilla* sp., description 389
- Syphacia stroma* infecting
- Rattus rattus* 1257
 - Sciurus palmarum* 1257
- Syria**
- Prays oleae*, preyed on by *Chrysoperla carnea* 1164
- Syrphidae**
- from Spain 1450
 - insect prey, in India 921
 - parasites, in USSR 1969
- Syrphophagus*, parasitising syrphids 459
- Syrphophilus tricoloratus*, parasitising syrphids, behaviour 459
- Syrphus ribesii* parasites 459 preying on
- Aphis gossypii* 102
 - onion aphids 91
 - spruce aphids 1227
- Syrphus vitripennis* parasites 459 preying on *Aphis gossypii* 102
- Tabanomyces milkoii* infecting
- Chrysops relictus* 764
 - Tabanus* spp. 764
- Tabanus*, pathogens, in USSR 765
- Tabanus autumnalis* in USSR 409, 764 infected by
- Pheromermis* spp. 409
 - Tabanomyces milkoii* 764
- Tabanus autumnalis brunescens* in USSR 764 infected by
- Pacilomyces varioti* 764
 - Tabanomyces milkoii* 764
- Tabanus bromius flavofemoratus*, infected by *Pheromermis zaamini*, in USSR 1952
- Tabanus golovi* in USSR 764, 1952 infected by
- Pheromermis zaamini* 1952
 - Tabanomyces milkoii* 764
- Tabanus leleani*, infected by *Pheromermis zaamini*, in USSR 1952
- Tachinaephagus*, against *Stomoxys nigra*, in Mauritius 1825
- Tachinaephagus stomoxicida*, parasitising *Stomoxys* spp. 1996
- Tachinomyia*, trapping technique 1390
- Tachys*, preying on *Diabrotica longicornis* 15
- Taiwan**
- Braconidae* 1958
 - Chunrocerus niveosparsus*, parasitised by *Gonatocerus* sp. 651
 - Cunaxidae*, taxonomy 1433
 - Diaphorina citri*, parasitised by *Psyllaephagus diaphorinae* 387
 - Dysmicoccus brevipes*, parasitised by *Hambletonia pseudococcinna* 652
 - Fusarium oxysporum cubense*, controlled by antagonists 653
 - Matsumuratettix hiroglyphicus*, parasites 10
 - mosquitoes, infected by *Coelomomyces* spp. 257
 - Rhizoctonia solani*, antagonists 1094
 - rice hoppers, natural enemies 521, 523, 524
 - Steneotarsonemus spinki*, natural enemies 1037, 1038
- Tanytarsus* infected by
- Limnomermis* sp., in USSR 1822
 - Tetrahymena* sp., in Canada 1292
- susceptible to *Bacillus thuringiensis israelensis* 1811
- Tanzania**
- aquatic snails, infected by *Cercaria* spp. 780
 - Biomphalaria pfeifferi*, eliminated by *Marisa cornuarietis* 1837
 - Lymnaea natalensis*, eliminated by *Marisa cornuarietis* 1837
- Tea**
- Acaphylla theae*, predators, in India 1698
 - biological pest control, in Sri Lanka 1183
 - Buzara suppressaria*, infected by *Bacillus thuringiensis*, in China 1181
 - Calacarus carinatus*, predators, in India 1698
 - Chrysomphalus aonidum*, controlled by natural enemies, in India 1182
 - Ectropis obliqua*, infected by NPV, in China 1697
 - Homona magnanima*, infected by GV in Japan 658
- Toxoptera aurantii*, preyed on by *Forficula auricularia*, in USSR 1699
- Teak**
- Hyblaea puera*, preyed on by *Chaenura rayotus*, in India 1213
- Telenomus**
- against *Chilo auricilius* 1030
 - parasitising
 - Erinnyis ello* 559
 - Eurygaster* spp. 27, 28, 1039
 - Heliothis armigera* 1639
 - Sesamia* spp. 1023, 1541
 - tabanids 777
 - taxonomy 903
- Telenomus acrobates*, parasitising chrysopids 599, 648
- Telenomus alecto*, parasitising *Diatraea saccharalis* 1534
- Telenomus alsophilae*, parasitising *Alsophila pomataria* 196
- Telenomus angustatus*, parasitising *Hybomitra bimaculata* 1304
- Telenomus californicus* parasitising *Orgyia pseudotsugata* 1233
- reproductive biology 1496
- Telenomus chloropus*, parasitising *Eurygaster integriceps* 532
- Telenomus costalimai*, parasitising *Triatoma infestans* 1835
- Telenomus dalmanni*, effect of pyrethroids 1372
- Telenomus dignus*, parasitising *Scirpophaga incertulas* 526
- Telenomus droozii*, parasitising *Ennomos subsignarius* 207
- Telenomus fariarum* parasitising
- Panstrongylus* spp. 1835
 - Triatoma* spp. 1835
- Telenomus heliothidis*, host discrimination 1483
- Telenomus heydeni* immature stages 970 parasitising *Aelia rostrata* 30
- Telenomus kurentzovi*, intraspecific variability 397
- Telenomus laeviusculus* parasitising
- Lymantria dispar* 195
 - Malacosoma neustria* 153, 195
- Telenomus lopicida*, parasitising *Calocoris trivialis*, biology 972
- Telenomus macroceps*, parasitising *Lymantria dispar* 195
- Telenomus mormideae*, parasitising *Piezodorus guildinii* 82
- Telenomus nitidulus*, parasitising *Leucoma salicis* 195
- Telenomus oophagus* intraspecific variability 397 parasitising *Hybomitra bimaculata* 1304
- Telenomus phalaenarum* parasitising
- Lymantria dispar* 195
 - Malacosoma neustria* 195
- Telenomus rowani*, parasitising *Scirpophaga innotata* 1033
- Telenomus tabani*, intraspecific variability 397
- Telenomus tetratomus*, parasitising *Lymantria dispar* 195
- Teleogryllus commodus* in Australia 1055

Teleogryllus commodus (contd.)

- infected by
 CrPV 1055
Metarhizium anisopliae 1055
- Temelucha**, population dynamics 1998
- Temelucha minuta**, parasitising
Phthorimaea operculella 107
- Temnochila chlorodia**, preying on
Dendroctonus brevicornis, attractants 698
- Temnostethus gracilis**, preying on
Cryptococcus fagisuga 208
- Teratosperma oligocladum**, inhibiting
Sclerotinia spp. 1129
- Tessarotoma javanica**, biological control,
 in Thailand 1467
- Tetanocera**, parasitised by *Trichogramma*
 sp. 777
- Tetrahymena**, infecting chironomids 1292
- Tetrahymena chironomi**, infecting
Chironomus plumosus 1292
- Tetramoera schistaceana**
 in Malaysia 5
Trichogramma spp. against 5
Trichogrammatoidea nana against 5
- Tetraneura**, preyed on by *Passer montanus*, in Japan 210
- Tetranychus**
 in USSR 598, 709, 1637
Phytoseiulus persimilis against 709
 preyed on by
Amblyseius spp., in Pacific 424
Stethorus sp. 598
- Tetranychus canadensis**, predators, in
 USA 627
- Tetranychus cinnabarinus**
 in Egypt 604
 in India 1591
 preyed on by
Olios sp. 1591
Poecilochroa sp. 1591
Scolothrips indicus 1591
- Tetranychus fijiensis**, predators, in
 India 1995
- Tetranychus kanzawai**, preyed on by
Phytoseiulus persimilis, functional
 response model 507
- Tetranychus mcDanieli**
 predators, in USA 627
 preyed on by *Typhlodromus occidentalis*, model 1527
- Tetranychus neocaledonicus**
 in India 1591
 preyed on by
Olios sp. 1591
Poecilochroa sp. 1591
Scolothrips indicus 1591
- Tetranychus pacificus**
Amblyseius spp. against 406
 behaviour of predators 1007
 in USA 406, 1008
 preyed on by
Amblyseius citrifolius 2026
Typhlodromus occidentalis 1008
- Tetranychus urticae**
 biological control, review 939
 effect of temperature on locomotion 482
 in Australia 438, 1137
 in China 603
 in Colombia 1474
 in Egypt 604
 in Finland 1084
 in Italy 176, 632, 1630
 in Norway 576
 in UK 121, 1242, 1624
- in USA 627, 1008, 1138, 1139, 1243,
 1508, 1612, 1761, 1762
 in USSR 104
 infected by *Entomophthora florida*
florida 1508
 integrated control 142, 438, 603
Phytoseiulus macropilis against 1761,
 1762
Phytoseiulus persimilis against
 104, 121, 344, 1242, 1243, 1612,
 1624, 1762
 effect of pesticides 855, 857, 1892
 introduction technique 576
 world review 441
- predators
 effect of pesticides 855, 857,
 859, 1159, 1385, 1892
 rearing 879
- preyed on by
Agistemus exsertus 604
Amblyseius bibens 859
Amblyseius fallacis 1138, 1139,
 1385, 2065
Amblyseius gossipi 604
Cardiastethus nazarensis 991, 992
Coniopteryx esbenpeterseni 632
Phytoseiulus macropilis 2065
Phytoseiulus persimilis
 density-distribution model
 2063, 2064
 population dynamics 506
Scolothrips sexmaculatus 1159
Typhlodromus occidentalis 1008
Typhlodromus occidentalis against 438
- Tetraphleps**, preying on *Pristiphora erichsonii* 707
- Tetrastichus**
 against
Diaphorina citri, in Reunion 643
Trioza erytreae, in Reunion 643
 parasitising
Argyresthia laevigatella 1236
Euphyllura phillyreae 445
Orthaga euadrusalis 1172
Phytomyza orobanchia 837
Rastrococcus iceryoides 1172
Saissetia oleae 1682, 1683
- Tetrastichus ajmerensis**, parasitising
Coccidohystrix insolita, description
 1939
- Tetrastichus aligarhensis**, parasitising
Pulvinaria sp., description 1939
- Tetrastichus annulicornis**, parasitising
Coccidohystrix insolita, description
 1939
- Tetrastichus ayyari**, against *Chilo auricilius* 1030
- Tetrastichus brontispae**, against
Brontispa longissima, in Solomon
 Is. 1702
- Tetrastichus ceroplastae**, parasitising
 citrus coccids, effect of insecticides
 1676
- Tetrastichus coccinellae**, parasitising
Coccinella septempunctata 1966
- Tetrastichus dryi**, parasitising *Trioza erytreae* 917
- Tetrastichus hagenowii**
 host specificity 288
 parasitising
Blatta orientalis 288
Periplaneta americana 288
- Tetrastichus indicus**, parasitising
 coccids, description 1939
- Tetrastichus israeli**
 against
Bissetia steniella, in India 4
- Chilo infuscatellus*, in India 4
 parasitising *Scirpophaga incertulas*
 526
- Tetrastichus julis**, diapause 468
- Tetrastichus miser**, parasitising *Apanteles plutellae* 99
- Tetrastichus principiae**, parasitising
 chrysopids 179, 648
- Tetrastichus psyllidis**, parasitising
 psyllids, description 1939
- Tetrastichus pyrrillae**, parasitising
Pyrilla perpusilla 1564
- Tetrastichus schoenobii**
 parasitising
Scirpophaga incertulas 526
Scirpophaga spp., oviposition
 kairomone 2014
- Tetrastichus servadeii**, parasitising
Thaumetopoea pityocampa 1744
- Thailand**
 biological control, review 1467
 cashew pests, natural enemies 185
 mosquitoes, infected by
Helicospodidum sp. 1805
Orseolia oryzae, parasitised by
Platyaster spp. 2012
 rice hoppers, egg parasites 1028
- Thanasimus dubius**
 activity pattern, monitoring
 technique 1899
 collection techniques 866
 effect of temperature 481
 preying on *Dendroctonus frontalis*
 behaviour 219
 distribution model 1220
- Thanasimus femoralis**, preying on
Ips typographus, attractants 699
- Thanasimus formicarius**, preying on
Ips typographus, attractants 699
- Thaumatomyia notata**, preying on
Pemphigus fuscicornis 92
- Thaumatomyia rufa**, preying on
Pemphigus fuscicornis 92
- Thaumatomyia sulcifrons**, preying on
Pemphigus fuscicornis 92
- Thaumetopoea pityocampa**
Bacillus thuringiensis against 704
 in Bulgaria 1192
 in France 1745
 in Greece 704
 in Italy 1744, 1746
 infected by *Bacillus thuringiensis*
 1192
 parasitised by
Ooencyrtus pityocampae 704,
 1744
Tetrastichus servadeii 1744
Villa brunnea 1745
Parus spp. against 1746
- Thaumetopoea processionea**,
 parasitised by *Pales pavidia*, in
 France 873
- Thecodiplosis japonensis**
 in Korea 218
 parasitised by
Inostemma seoulis 218
Platyaster sp. 218
- Thelazia**, infecting *Musca autumnalis*
 1830
- Thelohania disparis**, infecting
Lymantria dispar 672
- Thelohania fibrata**, infecting simuliids
 755, 756, 1817
- Thelohania varians**, infecting simuliids
 755, 756
- Thereuonema hilgendorfi**, preying on
Leucoma candida 1205

- Theridion*, preying on *Bucculatrix thurberiella* 1644
- Theridion frondeum*, preying on *Ancylic discigerana* 1211
- Theridion leechi*, preying on citrus pests 644
- Theridula*, preying on *Bucculatrix thurberiella* 1644
- Therioaphis trifolii*
biological control, review 939
in Australia 44, 1049, 1573
in Greece 539
in USA 63
infected by *Zoophthora radicans* 1573
parasitised by
Aphelinus asychis 539
Praon exsoletum 539
Trioxys complanatus 539
preyed on by *Coccinella repanda* 1573
Trioxys complanatus against 44, 1049, 1573
- Therioaphis trifolii maculata*
biological control, in Australia 39, 44, 438
infected by *Entomophthora sphaerosperma*, bioassay 540
preyed on by *Hippodamia convergens*, in USA 64
- Therion circumflexum*, parasitising *Mythimna separata* 1446
- Thiara*, competing with *Biomphalaria glabrata* 1840
- Thiara granifera*
controlling *Biomphalaria glabrata*, in the Caribbean 1312
data sheet 1312
- Thimbleberries**
Diastrophus kincardii, parasitised by *Pteromalus gallicolus*, in Canada 586
- Thiodina*, preying on citrus pests 644
- Thomisus katraighatus*, preying on *Amrasca biguttula biguttula* 1112
- Thomsonisca pakistanensis*, parasitising *Aspidiotus destructor* 1172
- Thrips tabaci*, predators, in Egypt 600, 1052
- Thuricide**
against
Artogeia rapae, in USA 1605
Choristoneura fumiferana, in Canada 1228
Dione junio junio, in Brazil 1691
Euproctis chrysorrhoea, in Greece 704
Oiketicus kirbyi, in Colombia 1171
Orgyia pseudotsugata, in Canada 1234
Plutella xylostella, in India 1078
Spodoptera frugiperda, in USA 1605
Thaumetopoea pityocampa, in Greece 704
Trichoplusia ni, in USA 1605
- Thuringin**, against *Ostrinia nubilalis*, in Romania 517
- Thymelicus lineola**
in Canada 924, 926, 1576, 1971
infected by
Entomophthora egressa 1576
Zoophthora radicans 1576
natural enemies against 924, 926, 1971
- Thyrecephalus orthodoxus**
preying on
Heteronychus arator 53
Inopus rubriceps 1578
- Thyridanthrax**, taxonomy 1945
- Thysanoplusia intermixta**
in Japan 1446
parasitised by
Enicospilus tristrigatus 1446
Ephialtes capulifera 1446
- Thysanoplusia orichalcea**, in Australia 568
- Tibellus oblongus**, preying on *Hypera postica* 1046
- Tilapia rendalli**, preying on *Biomphalaria glabrata* 781
- Tilapia zillii**
against
Hydrilla verticillata 1355
Myriophyllum spicatum exalbescens 332
Potamogeton pectinatus 332
in USA 332, 1355
- Tipula paludosa**, parasitised by
Siphona geniculata, in UK 1054
- Tirathaba rufivena**, parasitised by *Venturia palmaris*, in Malaysia 188
- Tityus serrulatus**, preyed on by *Camponotus abdominalis*, in Brazil 776
- Tobacco**
Euxon messoria, parasites, in Canada 1452
Heliothis virescens, parasitised by *Diadegma* sp., in Cuba 469, 1647
Myzus persica
Chrysopa spp. against, in Bulgaria 1117
parasitised by *Aphidius gifuensis*, in China 1116
predators, in India 1648
predacious arthropods, in USA 145
- Spodoptera litura**
NPV against, in India 606
natural enemies, in India 1648
- Trialeurodes vaporariorum**, *Encarsia pergandiella* against, in Italy 118
- Tokelau Islands**
Graeffea crouanii, *Paranastatus* spp. against 1701
- Tomaspis flavopicta**, susceptibility to *Metarhizium anisopliae* 543
- Tomatoes**
biological pest control, review 934
Fusarium oxysporum lycopersici, *Trichurus spiralis* against 1472
Heliothis armigera
Bacillus thuringiensis against, in India 1597
GV against, in USSR 581
Heliothis punctigera, *Trichogramma ivelae* against, in Australia 1091
Liriomyza bryoniae
parasite rearing, in Netherlands 444
parasites, in Sweden 1760
Phthorimaea operculella, *Bacillus thuringiensis* against, in Brazil 1613
Trialeurodes vaporariorum
alternative parasites, in Netherlands 443
Anthocoris nemorum against, in Sweden 1086
- Aschersonia* spp. against, in Bulgaria 1088
- Encarsia formosa* against
in Czechoslovakia 1616
in USA 1615
- Encarsia pergandiella* against, in Italy 118
- Encarsia tricolor* against, in Spain 580
- Verticillium lecanii* against, in Sweden 1087
- Trichoplusia ni*, *Bacillus thuringiensis* against, in Brazil 1613
- Verticillium albo-atrum*, antagonists, in UK 1617
- Tomicobia watanabei**, parasitising *Ips typographus japonicus*, description 902
- Tomicus minor**
in Sweden 664
in USSR 221
infected by
Allantonema sp. 221
Neoditylenchus eremus 221
Parasitaphelenchus sp. 221
Parasitylenchus macrobursatus 221
- Tomicus piniperda**
in Finland 700
in Sweden 664
- Tonga**
Oryctes rhinoceros, controlled by *Baculovirus oryctes* 1700
- Topomyia yanbarensis**, infected by *Coelomomyces stegomyiae chapmani*, in Taiwan 257
- Tortrix viridana**
Bacillus thuringiensis against 193, 709, 1730
bird predators 1206
Formica rufa against 709
in Czechoslovakia 1206
in USSR 193, 709, 1730
parasitised by
Apechthis spp. 709
Phaeogenes invisor 709
Pimpla instigator 709
- Torvotrrips**, preying on *Olliffiella* spp., taxonomy 681
- Torymus**, parasitising *Dryocosmus kuriphilus* 686, 1210
- Torymus beneficus**, parasitising *Dryocosmus kuriphilus* 686
- Torymus ringofushi**, parasitising *Biorhiza weldi*, description 398
- Toxoglugea variabilis**, infecting *Bezzia* sp. 276
- Toxoptera aurantii**
in Italy 174
in Peru 1959
in USSR 1699
parasitised by
Aphidius colemani 1959
Lysiphlebus testaceipes 1959
Lysiphlebus spp. 174
preyed on by *Forficula auricularia* 1699
- Toxoptera citricida**
integrated control, in South Africa 175
parasitised by
Lysiphlebus testaceipes, in Peru 1959
- Toxorhynchites**, biology 938
- Toxorhynchites amboinensis**
biology 474
rearing technique 1909

- Toxorhynchites brevipalpis*, egg size, 251
- Toxorhynchites rutilis*
egg size 251
preying on *Wyeomyia vanduzeei* 952
- Toxorhynchites rutilus rutilus*
preying on *Aedes aegypti* 1785
instar preference 730
shipping technique 890
- Toxorhynchites splendens*
biology 1269
preying on *Aedes aegypti* 1467
susceptible to *Helicospidium* sp. 1805
- Toxotrypana curvicauda*, parasitised by *Doryctobracon toxotrypanae*, in Costa Rica 1693
- Trachela pacificus*, preying on citrus pests 644
- Tramea carolina*, preying on *Solenopsis invicta* 1308
- Trathala*, elimination by *Pentalitomastix* sp. 2044
- Trathala flavoorbitalis*, parasitising *Cnaphalocrocis medinalis* 527
- Trathala plesia*, parasitising *Acrobasis juglandis* 166
- Trechnites*
parasitising *Euphyllura phillyreae* 445
taxonomy 1961
- Trechus apicalis*, preying on *Diabrotica longicornis* 15
- Trialeurodes vaporariorum*
Anthocoris nemorum against 117, 1086
Aschesonia spp. against 105, 709, 1088
biological control, review 939
Encarsia formosa against 117, 443, 1085, 1615, 1616
effect of pesticides 855
population dynamics 442
world review 441
- Encarsia pergandiella* against 118, 443
- Encarsia tricolor* against 580
- Encarsia* sp. against 443
- Eretmocerus* sp. against 443
- fungal pathogens, effect of pesticides 863
- in Bulgaria 1088
- in Czechoslovakia 1616
- in Italy 118, 1759
- in Japan 1085, 1614
- in Netherlands 443
- in Spain 580
- in Sweden 117, 1086, 1087
- in UK 956
- in USA 1615
- in USSR 105, 709
- integrated control 1759
- parasitised by
Encarsia formosa
biology 964
effect of fungicide 1373
- Encarsia* spp. 1614
1614
temperature thresholds 1994
- Eretmocerus* spp. 1614
- Verticillium lecanii* against 117, 120, 956, 1087
- Triaspis caudatus*, parasitising *Apion* spp. 59
- Triaspis luteipes*, parasitising *Apion* spp. 59
- Triatoma*, in Argentina 1835
- Triatoma infestans*
infected by *Blastocrithidia triatomae* 1407
parasitised by
Ooencyrtus trinidadensis venatorius 1835
Oolathron mireyae 1835
Telenomus costalimai 1835
- Tribolium castaneum*
infected by
Farinocystis tribolii 1774
Nosema whitei, effect of crowding 1773
preyed on by *Blattisocius tarsalis* 1770
- Tribolium confusum*
infected by
Adelina tribolii, resistance to insecticide 233
Nosema whitei, resistance to insecticide 233
parasitised by
Acarophenax tribolii 716
Pyemotes herfsi 716
preyed on by
Acropsellina docta 716, 717
Acaropsellina sollers 716, 718
Cheyletus malaccensis 716
- Tribolium destructor*
infected by
Adelina tribolii 233, 234
Conidiobolus thromboides 234
Nosema whitei 233, 234
- Tribulus cistoides*, attacked by
Microlarinus lypriformis, in Bahamas 1337
- Tribulus terrestris*
attacked by *Microlarinus lypriformis*, in Bahamas 1337
natural enemies, in India 821
- Trichaporus*, taxonomic status 1929
- Trichilogaster acaciaelongifoliae*, against
Acacia longifolia, in South Africa 1318
- Trichocladium*, inhibited by *Verticillium sphaerosporum*, in Japan 1099
- Trichoderma*
against *Phythium* spp. 1993
enhancement technique 1993
infecting *Curculio elephas* 636
inhibiting
Armillaria mellea, effect of fungicides 1389
Rhizoctonia solani
Sclerotium rolfsii 1993
- Trichoderma hamatum*
application techniques 1924
inhibiting
Pythium spp. 101
Rhizoctonia solani 101, 1094, 1128
- Trichoderma harzianum*
against
Fomes connatus, in USA 1212
Rhizoctonia solani, in Israel 1246
Valsa spp., in German Federal Republic 631
controlling
Rhizoctonia solani, in Israel 585
Sclerotium cepivorum, in Egypt 569
inhibiting *Phialophora melinii* 1212
- non-aseptic production 1919
- Trichoderma koningii*, against *Valsa* spp., in German Federal Republic 631
- Trichoderma longibrachiatum*, inhibiting *Rhizoctonia solani* 1094
- Trichoderma pseudokoningii*, inhibiting *Rhizoctonia solani* 1094
- Trichoderma viride*
against
Sclerotium rolfsii, in Brazil 515
Valsa spp., in German Federal Republic 631
Verticillium dahliae, in USSR 140
- controlling
Chondrostereum purpureum, in UK 956
Endothia parasitica, in Italy 1739
Phytophthora nicotianae parasitica 1657
Verticillium albo-atrum, in UK 1617
- inhibiting
Aspergillus spp. 618
Botrytis cinerea, interaction 1529
Fusarium oxysporum vasinfectum 1115
Verticillium dahliae 1115
wood fungi 1722
- Trichodischia soror*, parasitising *Spodoptera* spp., distribution 418
- Trichogramma*
against
Agrotis spp., in USSR 1598
cotton pests
in India 1473
in USSR 1637
Cydia pomonella 147
in Bulgaria 1660
in USSR 1659
Heliothis armigera
in Australia 1108
in USSR 595
Ostrinia nubilalis 1994
in Austria 13
in France 1549
Pandemis heperana, in Bulgaria 1660
collection technique 1894
controlling *Heliothis* spp., in Australia 1059
current status of work 952
mechanical distribution technique 892
parasitising
Anticarsia gemmatalis 1574
Archips semistructus 1124
Cnaphalocrocis medinalis 20, 527
cotton pests 1106
Cydia pyrchora 86
Erinnyis ello 559
Heliothis armigera 1585
Heliothis zea, effect of weeds 1531
Prays oleae 183, 1164
sciomyzids 777
tabanids 777
rearing techniques 876, 877, 878, 1398
release techniques 370, 892, 1415, 1416
- Trichogramma australicum*
against
Chilo sacchariphagus, in Malaysia 5

- Diatraea saccharalis*, in Peru 1943
biology 1492
effect of insecticides 1375
parasitising
 Acherontia styx 106
 Diatraea saccharalis 2
Trichogramma brasiliensis, parasitising
 Diatraea saccharalis 1534, 1943
Trichogramma cacoeciae
 against cabbage pests 1994
 in Netherlands 1601
 effect of pyrethroids 1372
Trichogramma chilonis
 against *Chilo sacchariphagus*, in
 Malaysia 5
 host preference 1491
 parasitising *Heliothis armigera* 1123
Trichogramma chilotraee
 against
 Chilo sacchariphagus, in Malaysia
 5
 Diatraea saccharalis, in Peru
 1943
 biology 1556
Trichogramma confusum
 against
 Bissetia steniella, in India 4
 Chilo infuscatellus, in India
 4
Trichogramma dendrolimi
 artificial diet 361
 parasitising *Dendrolimus punctatus*
 216
Trichogramma embryophagum
 against *Cydia pomonella*, in
 France 148
 preyed on by *Chrysoperla carnea*
 1003
 rearing technique 340
Trichogramma euproctidis
 against
 Loxostege sticticalis, in USSR 67
 Mamestra brassicae, in USSR 1602
 Ostrinia nubilalis, effectiveness
 340
 Palpita quadristigmalis, in Peru
 1943
 Pieris brassicae, in USSR 1602
 rearing technique 1908
Trichogramma evanescens
 against
 cabbage pests 1994
 in Netherlands 1601
 Ostrinia nubilalis, in Austria 1550
 effect of *Bacillus thuringiensis* 96
 parasitising
 Artogeia rapae 95
 Epichoristodes acerbella 1245
 Ostrinia furnacalis 1553
 Pieris brassicae 95
 redescription 905
Trichogramma exiguum, host
 preference 1491
Trichogramma fasciatum
 identity, in Peru 1943
 parasitising *Diatraea saccharalis* 2,
 1534, 1535
Trichogramma funiculatum, parasitising
 Epiphyas postvittana 154
Trichogramma ivelae
 against *Heliothis punctigera*, in
 Australia 1091
 parasitising *Cydia* spp. 1091
Trichogramma japonicum
 against
 Chilo auricilius 1030
 Chilo sacchariphagus, in
 Malaysia 5
 Diatraea saccharalis, in Peru
 1943
 Diatraea spp., in Trinidad 1532
Trichogramma juliano
 parasitising
 Elgiva sundewalli 777
 Sepedon fuscipennis 777
Trichogramma maidis
 fecundity 973
 parasitising *Ostrinia nubilalis* 905,
 1942
Trichogramma maxacalii, parasitising
 Euselasia eucerus, description 401
Trichogramma meyeri, parasitising
 Heliothis armigera, description 402
Trichogramma minutum
 parasitising
 Aneylis discigerana 1211
 Helopeltis antonii 1692
 Scirpophaga incertulas 526
Trichogramma nubilale
 against *Ostrinia nubilalis*, in USA 1090
 biometrical studies 1942
Trichogramma oleae 905
Trichogramma perkinsi
 against
 Bissetia steniella, in India 4
 Chilo infuscatellus, in India 4
 biology 1492
 effect of insecticides 1375
 parasitising *Heliothis* spp. 1943
 rearing hosts 362
Trichogramma platneri
 against
 Amorbia sp., in USA 1169
 Sabulodes caberata, in USA 1169
Trichogramma pretiosum
 against *Heliothis zea*
 pre release experience 1922
 release technique 1415
 effect of freezing 473
 effect of temperature 1640
 host discrimination 1483
 host-searching behaviour 1494,
 1524
 parasitising
 Diatraea lineolata 1021
 Heliothis armigera 1639
 Heliothis subflexa 594
 Heliothis virescens 131, 136, 594
 Heliothis zea 594, 1494
 rate of development 1493
Trichogramma semifumatum
 parasitising
 Oediopalpa guerini 1561
 stemborers 1943
Trichogramma sibiricum, parasitising
 Cydia inopinata, description 402
Trichogrammatoidea
 parasitising *Earias* spp., population
 growth 1495
 rearing technique 1901
Trichogrammatoidea bactrae,
 parasitising *Achaea janata* 565
Trichogrammatoidea lutea, parasitising
 Heliothis armigera 1639
Trichogrammatoidea nana, against
 Tetramoera schistaceana, in
 Malaysia 5
Trichophora melas, parasitising
 Glena bisulca 1710
Trichoplusia ni
 Bacillus thuringiensis against 98,
 1605, 1608, 1613
 in Brazil 1613, 1638
 in Taiwan 1958
 in USA 98, 1605, 1606, 1607, 1608
 infected by
 Entomophthora sp. 1638
 Nomuraea rileyi 1638
 Vairimorpha necatrix 485,
 1506
 Nomuraea rileyi against 98
 parasitised by
 Apanteles hemithae 1958
 Chelonus sp., developmental
 responses 2005
 Hyposoter exiguae, effect of
 temperature 1997
 Litomastix truncatella 1638
 Microcharops bimaculata 1638
 Voria ruralis, interaction with
 NPV 2072
 preyed on by
 Dendroica palmarum palmarum
 1607
 Labidura riparia 1606, 1607
 Passerculus sandwichensis
 savanna 1607
 RNA virus, detection 1391
 Serratia marcescens against 98
 virus bioassay 870
Trichopoda pennipes, parasitising
 Nezara viridula, estimation of
 parasitism 1900
Trichopoda pilipes, against *Nezara*
 viridula, rearing technique 1399
Trichopoda plumipes, parasitising
 Brochymena spp. 1734
Trichopria, parasitising *Stomoxys* spp.
 1996
Trichoprosopon digitatum, susceptibility
 to *Bacillus thuringiensis israelensis*
 1282
Trichopsidea oestracea, parasitising
 grasshoppers, dispersal 2018
Trichosirocalus horridus
 against *Carduus* spp. in USA
 821, 1319, 1323
 bibliography 302
 attacking *Carduus* spp. 1322, 1323,
 1849
 host range 1322
Trichurus spiralis, against *Fusarium*
 oxysporum 1472
Triclistus globulipes, parasitising
 Epiphyas postvittana 228
Trinidad
 Automeris janus, parasitised by
 Belvosia formosa 1188
 Diatraea spp., biological control
 1532
 sugarcane pests, natural enemies 1545
Triops cancriformis, life table 1503
Triops granarius, life table 1503
Triops longicaudatus, life table 1503
Trioxys angelicae, parasitising fruit
 aphids 1103, 1667
Trioxys complanatus
 against *Therioaphis trifolii*, in
 Australia 44, 1049, 1573
 climatic ecotypes 63
 parasitising
 Acyrtosiphon pisum 539
 Therioaphis trifolii 63, 539

- Trioxys eutrichosiphi*, parasitising *Eutrichosphium pasaniae* 380
- Trioxys indicus***
host selection 2002
parasitising *Aphis craccivora* 1596, 2001
sex ratio in field 1486
superparasitism 2001
- Trioza erytrae***
hyperparasitised by *Cheiloneurus cyanonotus* 1961
in South Africa 917, 1156
parasitised by *Tetrastichus dryi* 917
Tetrastichus spp. against, in Reunion 643
- Triplosporium***, from Israel 922
- Tripteroides bambusa***, infected by *Coelomomyces* spp., in Taiwan 257
- Trirhabda baccharidis***, against *Baccharis halimifolia*, in Australia 787
- Trissolcus***
parasitising *Eurygaster* spp. 27
taxonomy 903
- Trissolcus basalis***
parasitising
Aelia rostrata 30, 1569
Nezara viridula 1059, 1651
- Trissolcus bennisi***, parasitising *Aelia rostrata* 30
- Trissolcus choaspes***, parasitising
Aelia rostrata 1569
- Trissolcus ghorfii***, parasitising *Aelia rostrata* 30
- Trissolcus grandis***
parasitising
Aelia rostrata 30, 1569
Eurygaster integriceps 532, 1039
supplementary feeding on flowers 471
- Trissolcus reticulatus***, parasitising *Aelia rostrata* 1569
- Trissolcus rufiventris***, parasitising *Aelia rostrata* 30, 1569
- Trissolcus rungsi***, parasitising *Aelia rostrata* 30
- Trissolcus scutellaris***, parasitising *Aelia rostrata* 30
- Trissolcus semistriatus***
parasitising
Aelia rostrata 30, 1569
Eurygaster integriceps 1039
Eurygaster maura 1569
- Trissolcus simoni***, parasitising *Aelia rostrata* 30
- Trochosa***, from North America, taxonomy 405
- Trochoseius gongylus***, from Nigeria 1462
- Trogoderma glabrum***, infected by *Mattesia trogodermae* 1920
- Trogus mactator***, parasitising *Papilio xuthus* 1216
- Tropiconabis capsiformis***
preying on
Autographa biloba 1574
Rachiplusia ou 1574
- Trox procerus***, preying on *Schistocerca gregaria* 932
- Trybliographa rapae***, parasitising *Delia radicum* 1082
- Trypanosoma***, infecting rodents, in UK 245
- Tryporzys nivella***
biological control, in Pakistan 510
in India 4
- Tsugaspidiotus tsugae***, parasitised by *Encarsia citrina*, in USA 223
- Tubaphis ranunculina***, infected by *Zoophthora phalloides*, in France 1528
- Tuberculina maxima***, controlling *Cronartium ribicola*, in USA 1239, 1756
- Tubifex***, preyed on by *Toxorhynchites amboinensis* 1909
- Tucumania tapiacola***, against *Opuntia aurantiaca*, in South Africa 821
- Tumidiclava***, against *Phragmataecia gummata*, in Malaysia 5
- Turf**
Blissus leucopterus hirtus, population biology, in USA 542
- Turneric**
insect pests, parasites, in India 141
- Turkey**
Aelia rostrata, parasites 1569
Chrysoperla carnea, effect of insecticides 1107
Dialeurodes citri, predators 1679
Tussilago farfara, infected by *Puccinia poarum* 1871
Tuzetia debaisieuxi infecting simuliids 755, 756, 1818
- Tydeus**
preying on
citrus scales 638
tea mites 1698
- Tydeus foliorum***, natural enemies, in Italy 176
- Tyndarichus***, taxonomy 1937
- Typha Ctenopharyngodon idella***
against, in USSR 1351
- Typhlocyba pomaria***, parasitised by *Anagrus epos*, in USA 157
- Typhlodromips benavidesi***, preying on *Oligonychus punicae*, description 1461
- Typhlodromips rykei***, from Nigeria 1462
- Typhlodromus***, preying on citrus scales 638
- Typhlodromus africanus***, biology 1432
- Typhlodromus californicus***, rearing technique 879
- Typhlodromus convallis***, taxonomy 1431
- Typhlodromus liliaceus***, taxonomy 1431
- Typhlodromus occidentalis***
against *Tetranychus urticae*, in Australia 438, 1137
effect of temperature on locomotion 482
prey location 1008
preying on *Tetranychus mcdanieli*, model 1527
resistance to pesticides 162, 860, 1386, 1387
- Typhlodromus pini***, taxonomy 907
- Typhlodromus pyri***
effect of pesticides 859, 1136
preying on
Aculus schlechtendali 1136, 1664
apple mites 161, 627
Panonychus ulmi 1136, 1664
plum mites 630
vine mites 1630
reproduction 2027
- Typhlodromus reticulatus***
preying on
Brevipalpus lewisi 123
Eriophyes vitis 123
- Typhlodromus tiliaurum***
preying on
apple mites 161
plum mites 630
- Tyria jacobaeae***
against *Senecio jacobaeae*
in Australia 821
in USA 1333
attacking *Senecio jacobaeae*, interactions 306, 2071
- Tyrophagus***, preying on *Parthenolecanium wistariae* 1763
- Tyto alba pratincola***, preying on rodents 1252
- Tytthus mundulus***, rearing technique 1401
- Tytthus parviceps***, preying on *Sogatodes* spp. 23
- Udaspes folus***, parasites, in India 141
- Uganda**
Musca domestica, predators 1826
Stomoxys calcitrans, predators 1826
- Ulex europaeus***
biological control
annotated bibliography 1328
in New Zealand 800
- UK**
Acaenitinae 1418
Amphipyra pyramidea, parasites 1215
aphidophagous syrphids, parasite behaviour 459
Aphis fabae, fungi against 1065
aquatic weeds, *Ctenopharyngodon idella* against 832
Apodemus sylvaticus, blood parasites 245
biological pesticides, registration 951
Cecidophyopsis ribis, infected by *Verticillium lecanii* 1627
Cephalcia lariciphila, infected by *Neoplectana carpocapsae* 1237
Chondrostereum purpureum, controlled by *Trichoderma viride* 956
Cinara pilicornis, infected by *Entomophthora* sp. 224
Clethrionomys glareolus, blood parasites 245
Columba palumbus, preyed on by *Accipiter gentilis* 1254
Cydia pomonella, preyed on by *Parus* spp. 1658
Delia brassicae, integrated control 1610
Dendrocerus spp., taxonomic revision 403
Epiphyas postvittana, parasites 228
forest pests
preyed on by
Formica rufa 1715, 1716
Parus spp. 1717
glasshouse pests, biological control, review 934, 956
Heterodera spp., infected by fungi 1655
mealybugs, *Cryptolaemus montrouzieri* against 1244
Microtus agrestis, blood parasites 245
mosquitoes, *Bacillus thuringiensis israelensis* against 283
Oryctolagus cuniculus, parasitised by *Spilopsyllus cuniculi* 238
Parthenolecanium spp., parasites 1763

UK (contd.)

- Pemphigus bursarius*, infected by *Erynia nouryi* 413
- Phorodon humuli*, preyed on by *Anthocoris* spp. 143, 144
- Phyllonorycter rajellus*, natural enemies 206
- Scolytus* spp., infected by *Phomopsis oblonga* 1208
- Simulium* spp., infected by *Gastromermis metae* 1951
- Tetranychus urticae*, *Phytoseiulus persimilis* against 121, 1242, 1624
- Tipula paludosa*, parasitised by *Siphona geniculata* 1054
- Uromyces dianthi*, inhibited by *Verticillium lecanii* 713
- Verticillium albo-atrum*, antagonists 1617
- Xoridinae 1417
- Unaspis citri*, parasitised by *Aphytis* sp., in Argentina 1152
- Unaspis euonymi*, preyed on by *Hemisarcoptes malus*, in Bulgaria 1668
- Unaspis yanonensis*
- Aphytis lingnanensis* against 1153
- Chilocorus* spp. against 1153
- in China 1680
- in Japan 1153
- infected by *Fusarium coccophilum* 1680
- Uranotaenia*, infected by *Coelomomyces quadrangulatus*, in Taiwan 257
- Uredo*, infecting *Carduus* spp. 1319
- Uredo eichhorniae*
- infecting *Eichhornia crassipes* 827
- storage 1876
- Uromyces dianthi*, inhibited by *Verticillium lecanii*, in UK 713
- Uromyces pottederiae*, storage 1876
- Urophora affinis*, attacking *Centaurea* spp. 1852
- Urophora kasachstanica*, attacking *Acroptilon repens* 790
- Urophora maura*, attacking *Acroptilon repens* 790
- Urophora quadrifasciata*, attacking *Centaurea* spp. 1852
- Urophora stylata*, against *Cirsium arvense*, in Canada 1319
- Uroplata*, against *Lantana camara*, in Australia 787
- Uroplata girardi*, controlling *Lantana camara*, in Australia 787
- Uruguay
- Papilio thoas thoantiades*, parasitised by *Lespesia protoginoi* 1157
- USA
- Acrobasis juglandis*, parasites, in Michigan 166
- Acyrtosiphon* spp., preyed on by *Hippodamia convergens*, in California 64
- Ageratina riparia*, natural enemies against, in Hawaii 1466
- Agrilus bilineatus*, parasitised by *Phasgonophora sulcata*, in Wisconsin 1207
- Agromyza frontella*, parasites, in Pennsylvania 1048
- Agrotis ipsilon*, parasitised by *Bonnetia comta*, in Ohio 1022
- Aleurocanthus woglumi*, parasites against, in Florida 172, 1677, 1678
- Alsophila pometaria*, parasitised by *Telenomus alsophilae* 196
- Ambrosia trifida*
- attacked by *Chionodes mediofuscella* 815
- infected by *Puccinia xanthii* 309
- Amorbia* sp., integrated control, in California 1169
- Amyelois transitella*, pathogens, in California 1144, 1145
- Ancyliis discigerana*, natural enemies, in New York 1211
- Anoda cristata*
- infected by *Alternaria macrospora* 816, 817
- Fusarium lateritium* 1856
- Anthonomus grandis*, infected by nematodes, in Louisiana 134
- Anthonomus grandis grandis*, parasites, in Texas 1632
- Anticarsia gemmatilis*
- NPV against, in Florida 1581
- parasitised by *Euplectrus puttleri*, in Florida 555
- Aonidella aurantii*, *Aphytis melinus* against, in California 1149, 1150
- Aphis pomi*, parasitised by *Aphithrombium mali*, in Missouri 407
- apple mites
- in New York 627
- preyed on by *Amblyseius fallacis*, in Michigan 1138
- apple pests, integrated control in Massachusetts 163
- in Michigan 1888
- in Virginia 1140
- aquatic weeds
- algal inhibitors, in Colorado 1883
- attacked by *Tilapia zillii*, in California 332
- biological control, in Florida 1348
- Ctenopharyngodon idella* against 325, 326, 327, 328
- Argyrotaenia citrana*, parasites, in California 1102
- arthropod species in culture 429
- artichoke pests, preyed on by *Hemerobius pacificus*, in California 570
- Artogeia rapae*, *Bacillus thuringiensis* against 1605, 1608
- Athene cunicularia*, diet 1253
- Autographa biloba*, natural enemies, in Florida 1574
- Bacillus thuringiensis*, distribution in soils 1897
- biological pesticides, registration 951
- Blissus leucopterus hirtus*, population biology, in New Jersey 542
- Brachys tessellatus*, natural enemies, in Georgia 1731
- Brochymena* spp., parasitised by *Trichopoda plumipes*, in Texas 1734
- Carduus* spp.
- integrated control 821
- natural enemies 1319
- Rhinocyllus conicus* against 300, 301, 1320, 1321
- Trichosiocalus horridus* against, bibliography 302
- Carpophilus hemipterus*, *Zeteticontus* sp. against, in Hawaii 1177
- Carulaspis* spp., preyed on by *Aleuropteryx juniperi* 1247
- Chauliognathus pennsylvanicus*, infected by *Entomophthora lampyridum*, in South Carolina 229
- chironomids
- Bacillus thuringiensis israelensis* against, in Florida 1294
- infected by *Entomophthora culicis*, in New York 1293
- Microsporidium* spp., in Florida 910
- vertebrate predators, in South Carolina 1291
- Chondrilla juncea*, *Puccinia chondrillina* against, in Washington 1340
- Choristoneura occidentalis*
- Neoalectana carpocapsae* against in Idaho 1735
- parasite distribution, in Colorado 1741
- parasites, in Washington 1232
- citrus nematodes, natural enemies, in California 177
- citrus pests, preyed on by spiders, in California 644
- citrus scales, biological control problem, in California 167
- citrus whiteflies, natural enemies, in Texas 173
- Cleridae, from Michigan 423
- Coccinella septempunctata*, distribution 920
- Coleophora laricella*, parasites against 212, 1742, 1743
- conifer root-rot pathogens, inhibited by *Bacillus* sp., in Oregon 1241
- cotton arthropods, sampling technique 354
- Cronartium ribicola*, controlled by *Tuberculina maxima*, in Washington 1239, 1756
- Cucurbita texana*, infected by *Fusarium solani cucurbitae*, in Arkansas 1346
- Curculio caryae*, preyed on by *Solenopsis invicta*, in Georgia 1146
- Cyperus* spp., attacked by *Bactra verutana*, in Mississippi 1325, 1326
- Cytisus scoparius*, biological control, in California 305
- Datura stramonium*, attacked by *Lema trivittata* 808
- Dendroctonus brevicomis*, preyed on by *Temnochila chlorodia*, attractants 698
- Dendroctonus frontalis*
- attraction of natural enemies, in Texas 696
- infected by *Contortylenchus brevicomi*, in Louisiana 695
- natural enemies 1220, 1221
- parasites, in Georgia 694, 1750
- Dendroctonus pseudotsugae*, natural enemies, in Idaho 697
- Dialeurodes citri*, controlled by *Encarsia lahorensis*, in California 1154
- Diaprepes abbreviatus*, preyed on by *Phidippus regius*, in Florida 1004
- Diatraea saccharalis*
- integrated control, in Florida 511

USA (contd.)

- Lixophaga diatraeae* against, in Louisiana 512
preyed on by ants 1015
- Dichomerus ligulella*, parasites, in Pennsylvania 679
- Eichhornia crassipes*, biological control 821, 822, 827, 1873
- Elasmopalpus lignosellus*, parasites, in Texas 1424, 1579
- Elasmotherus* spp., parasitised by *Euclytia flava*, in South Carolina 209
- Ennomos subsignarius*, egg parasites 207
- Ephestia cautella*, controlled by *Bracon hebetor*, in Florida 1768
- Epilachna varivestis*, controlled by *Pediobius foveolatus*, in Washington D.C. 1584
- Euphorbia maculata*, insect fauna 1857
- Florinia externa*, parasitised by *Encarsia citrina*, in Connecticut 223
- Fomes connatus*, *Trichoderma harzianum* against. 1212
- fuelbreak maintenance, by goats, in California 313
- Fusarium oxysporum gladioli*, controlled by antagonists 714
- Galleria mellonella*, parasites, in North Carolina 1260
- Gibberella fujikuroi subglutinans*, inhibited by *Arthrobacter* sp. 706
- Glischrochilus fasciatus*, parasitised by *Hyalomyodes triangulifer*, in Ohio 1631
- grasshoppers, *Nosema lucustae* against 1056
- Gutierrezia* spp., attacked by *Crossidius pulchellus*, in New Mexico 1869
- Heliothis virescens*, predators, in Texas 1642
- Heliothis zea*, *Trichogramma* spp. against, release technique 1415
- Heliothis* spp., predators, in Mississippi 130
- Heterodera schachtii*, fungal pathogens, in California 93
- Hydrilla verticillata* attacked by *Paraponyx* spp. 1356, 1357
- Ctenopharyngodon idella* against, in Florida 1880, 1881
- Tilapia zillii* against, in California 1355
- Hypera brunneipennis*, predators, in California 60
- Hypera postica* infected by *Zoophthora phytonomi* in Illinois 56, 535, 1047 in Kentucky 1047
- parasitised by *Patasson luna*, in Wisconsin 1045
- predators, in Illinois 57
- suspected predators 1046
- Hyperaspis* spp., from California descriptions 404
- Hyphantria cunea*, baculoviruses against 190
- integrated pest control 840, 841, 842, 843, 844, 845, 849, 1366, 1367
- Iridomyrmex pruinosus*, preyed on by *Microdon fuscipennis*, in Georgia 2019
- Iva xanthifolia*, attacked by *Smicronyx commixtus*, in Washington 813
- Leperisinus* spp., parasites, in Oregon 682
- Liriomyza* spp., parasites, in California 1075
- Lymantria dispar* biological control, review 667, 668
- NPV against 674
- parasite effectiveness, in Connecticut 202
- parasitised by *Ooencyrtus kuvanae*, in Pennsylvania 1202
- preyed on by mammals, in New England 671
- Malacosoma* spp., *Bacillus thuringiensis* against in California 677
- Megamelus davisii*, natural enemies, in Illinois 1765
- Meloidogyne* sp., controlled by *Dactylella oviparasitica* 165
- Morrenia odorata*, controlled by *Phytophthora palmivora* 1342
- mosquitoes
- Bacillus sphaericus* against 1284, 1285, 1287, 1812, 1813
- Bacillus thuringiensis israelensis* against 261, 263, 264, 266, 267, 1284, 1285, 1807, 1808, 1810, 1811, 1812, 1813
- Dugesia tigrina* against, in North Dakota 1273
- fish against
- in California 1266
- in New Jersey 1268
- Gambusia affinis* against 269, 270, 271, 272, 275, 1266, 1268
- infected by
- Amblyospora polykarya* 410
- CPV, in Connecticut 752
- trichomycete fungi, in Nebraska 258
- parasitised by *Arrenurus pseudotenuicollis*, in Florida 252
- Poecilia reticulata* against, in California 273
- preyed on by *Agelenopsis naevia* 1786
- Romanomeris culicivora* against, in California 253, 268, 734
- Musca autumnalis* infected by *Thelazia* sp., in Massachusetts 1830
- preyed on by *Ravinia lhermineri* 762
- Musca domestica* integrated control 761
- parasites, in North Carolina 1300
- Spalangia endius* against, in Florida 1298, 1299
- Musca sorbens*, natural enemies, in Hawaii 1303
- Myriophyllum aquaticum*, attacked by *Lysathia ludoviciana*, in Florida 829
- Myriophyllum spicatum*, attacked by *Paraponyx badiusalis*, in North Carolina 321
- Myzus persicae* natural enemy sampling technique 353
- response of natural enemies to food plant, in Washington 1599
- Neodiprion pinetum*, controlled by parasites, in Wisconsin 705
- Nezara viridula*, predator assessment, in Louisiana 1060
- Opuntia polyacantha*, attacked by *Olycella subumbrella*, in Texas 1327
- Opuntia* spp., attacked by *Melitara dentata*, in Texas 1854
- Orgyia pseudotsugata* infected by NPV, in California 1235
- parasitised by *Telenomus californicus*, in Oregon 1233
- Orius insidiosus*, seasonal cycles, in Missouri 1061
- Ostrinia nubilalis* *Lydella thompsoni* against, in Delaware 1551
- natural enemies, in Connecticut 516
- Nosema pyraustae* against, in Iowa 1019
- Trichogramma nubilale* against, in Delaware 1090
- Parabemisia myricae*, parasites against, in California 1155
- Passiflora mollissima*, *Heliconius charithonius* against, in Hawaii 1870
- pecan aphids, *Coccinella septempunctata* against, in Georgia 635
- Pectinophora gossypiella*, integrated control, in Arizona 125, 126, 591
- Pentatomidae, tachinid parasites 1454
- Petrova albicapitana*, parasites, in Maine 1748
- Phoradendron flavescens*, attacked by *Citheronia regalis*, in Mississippi 838
- Phryganidia californica*, parasitised by *Itopectis behrensii*, in California 680
- Phthorimaea operculella*, predators, effect of insecticides, in California 1092
- Phyllonorycter* spp., parasites, in New England 623
- Phytomyza syngenesiae*, parasitised by *Chrysocharis ainsliei*, in California 94
- Pikonema alaskensis*, parasites, in Minnesota 1419
- Pineus pini*, *Leucopis* spp. against, in Hawaii 1466
- Plagithmysus bilineatus*, parasitised by *Doryctes palliatus*, in Hawaii 1480
- Plutella xylostella*, *Bacillus thuringiensis* against, in South Carolina 1608
- Polygonum pensylvanicum*, infected by *Ustilago urticulosa* 1866
- Prionoxystus robiniae*, controlled by *Neoaplectana carpocapsae*, in California 634

USA (contd.)

- Prociophilus fraxinifolii*, parasitised by *Aphelinus prociphili*, in Iowa 385
- Pseudococcus comstocki*, biological control, in California 1143
- Pseudoplusia includens*, infected by *Entomophthora gammae*, in Arkansas 1582
- Pteridium aquilinum* infected by *Ascochyta pteridium*, in California 1345
- natural enemies, in New York 819
- Pulvinaria* spp., *Coccophagus cowperi* against, in California 1764
- Quercus havardii*, attacked by *Hemileuca* sp., in Texas 797
- Rachiplusia ou*, natural enemies, in Florida 1574
- Reticulitermes hesperus*, preyed on by *Myomomyia latipennis*, in California 498
- Rhagoletis pomonella*, parasites, in Connecticut 1663
- Rhyacionia frustrana* *Campoplex frustranae* against, in California 701
- parasites, in Maryland 214
- Sabulodes caberata*, integrated control, in California 1169
- Salsola australis*, attacked by *Coleophora parthenica* 1329
- Sciopithes obscurus*, parasitised by *Dolichotarsus* sp., in Oregon 583
- Sclerotinia minor*, inhibited by *Sporidesmium sclerotivorum* 619
- Scolytus multistriatus*, multiple parasitism 1520
- scorpions, predators, in California 1309
- Senecio jacobaea*, integrated control 1333
- Sida spinosa*, infected by *Fusarium lateritium* 1856
- Simulium vittatum*, *Neoapectana carpocapsae* against, in New York 1295
- Simulium* spp., *Bacillus thuringiensis israelensis* against, in New York 1297
- Sitona hispidulus*, predators, in Illinois 57
- Solanum carolinense* attacked by *Frumenta nundinella*, in Virginia 1867
- virus against, in Georgia 1347
- Solenopsis invicta* preyed on by dragonflies, in Florida 1308
- Pyemotes tritici* against, in Georgia 770
- Solenopsis* spp., biological control 1976
- soyabean insects 71, 72, 73, 1058, 1062, 1580
- spider mites, preyed on by *Typhlodromus occidentalis*, in California 1008
- Spodoptera frugiperda* *Bacillus thuringiensis* against, in Georgia 1605
- symposium 614
- Spodoptera praefica*, predators, in California 60
- Stelidota geminata*, parasitised by *Microctonus nitidulidis*, in Delaware 122
- Strepsiptera, from Alabama 421
- sunflower pests, predators, in Georgia 89
- Symphoromyia hirta*, infected by *Erynia ithacensis*, in New York 1827
- Syntomeida epilais jucundissima*, *Bacillus thuringiensis* against 712
- tabanids, egg parasites, in New York 777
- Tetranychus urticae* infected by *Entomophthora floridana*, in North Carolina 1508
- Phytoseiulus macropilis* against, in Florida 1761, 1762
- Phytoseiulus persimilis* against in Florida 1762
- in Ohio 1243, 1612
- preyed on by *Scolothrips sexmaculatus*, effect of insecticides, in California 1159
- Therioaphis trifolii maculata*, preyed on by *Hippodamia convergens* in California 64
- Trialeurodes vaporariorum*, *Encarsia formosa* against, in Ohio 1615
- Trichoplusia ni* *Bacillus thuringiensis* against 1605, 1608
- preyed on by *Labidura riparia*, in Florida 1606, 1607
- Tsugaspidiotus tsugae*, parasitised by *Encarsia citrina*, in Connecticut 223
- Typhlocyba pomaria*, parasitised by *Anagrus epos*, in Michigan 157
- Vespula* spp., parasitised by *Bareogonales canadensis*, in Idaho 1307
- Xanthium strumarium*, natural enemies 310
- Xanthogaleruca luteola*, *Neoapectana carpocapsae* against, in California 1735
- Xanthoteras politum*, parasites, in New Jersey 1732
- USSR
- Acroptilon repens*, natural enemies 790
- Acyrtosiphon pisum*, *Bacillus thuringiensis* against 81
- Agrotis* spp. parasitised by *Spallanzania hebes*, in Tadzhikistan 62
- Trichogramma* spp. against 1598
- Ambrosia* spp., *Zygogramma suturalis* against 1865
- aphids, natural enemies, review 1975
- Aphis gossypii*, predators against 102, 103, 104
- aquatic weeds, *Ctenopharyngodon idella* against 329, 330, 331, 1351, 1352
- Artogeia rapae*, natural enemies 95, 96
- Bacillus thuringiensis*, distribution, in Kirgizia 1968
- bark beetles, infected by nematodes, in Georgia 197
- Batrachium rionii*, controlled by *Ctenopharyngodon idella*, in Turkmenia 1350
- Brevicoryne brassicae*, predators, evaluation 2069
- Centaurea picris*, infected by *Paranguina picridis*, in Azerbaidzhan 1338
- Ceratophyllus laeviceps*, infected by *Psyllotylenchus* spp. 1306
- cereal pests, natural enemies 530
- chironomids infected by *Hydromermis contorta*, in Azerbaidzhan 754
- mermithids, in Tadzhikistan 1436
- Chrysopa* spp., in Azerbaidzhan 1457
- Coccinella septempunctata*, natural enemies 1966
- Coccinellidae, review of use 432
- Conopia myopaeformis*, parasitised by *Leskia aurea* 156
- cotton aphids, preyed on by *Chrysoperla carnea*, in Uzbekistan 599
- cotton pathogens, inhibited by *Trichoderma viride* 1115
- cotton pests biological control, in Uzbekistan 1637
- natural enemies, in Azerbaidzhan 598
- Cuscuta lupuliformis*, attacked by *Smicronyx scopis* 337
- Cydia inopinata*, parasitised by *Trichogramma sibiricum*, in Siberia 402
- Cydia pomonella* infected by GV 150
- Trichogramma* spp. against, in Kirgizia 1659
- Dendrolimus sibiricus*, infected by *Gibberella fujikuroi*, in Siberia 1443
- Dioryctria abietella*, infected by *Fusarium oxysporum orthocerus*, in Siberia 1443
- Diuraphis noxia*, natural enemies, in Ukraine 31, 32
- Eotetranychus pruni*, predators, in Kirgizia 1671
- Eurygaster integriceps*, natural enemies 29, 1039, 1040
- Eurygaster* spp., natural enemies in Moldavia 28
- fleas, infected by nematodes 769, 1437
- forest pests *Bacillus thuringiensis* against 1721
- control handbook 935
- fruit aphids parasites, in Lithuania 1103, 1667
- preyed on by *Aphidoletes aphidimyza*, in Lithuania 590
- Galleria mellonella*, infected by fungi 722, 1443
- Heliothis armigera* *Bacillus thuringiensis* against, in Uzbekistan 596
- GV against, in Azerbaidzhan 581
- integrated control 595

USSR (contd.)

- parasitised by *Trichogramma meyeri*, in Uzbekistan 402
- Heliothis virescens*, parasites, in Tadzhikistan 61
- Hydrellia griseola*, braconid parasites, in Maritime Province 17
- Ichneumonidae
from Azerbaijan 1957
from Lithuania 1956
- Inachis io*, infected by *Fusarium oxysporum orthoceras*, in Siberia 1443
- insect pests, *Bacillus thuringiensis* against 1981
- integrated control, using *Trichogramma* spp. 340
- introduced chalcids 1465
- least harmful pesticides 1371
- Leptinotarsa decemlineata*, carabid predators 111, 1093
- Loxostege sticticalis*
parasites, in Ukraine 544
- Trichogramma euproctidis* against 67
- Lymantria dispar*
Bacillus thuringiensis against, in Armenia 673
infected by microsporidia, in Ukraine 672
NPV against 1728
predators 211, 670
- Macrotrypeta ortalidina*, parasitised by *Opius paeoniae* 227
- Malacosoma neustria*, natural enemies, in Crimea 676
in Lithuania 153
- Mamestra brassicae*
natural enemies 96, 97
Trichogramma spp. against 370, 1602
- Meloidogyne incognita*, *Arthrobotrys oligospora* against 1089
- Microcystis* spp., attacked by *Hypophthalmichthys molitrix*, in Ukraine 1354
- microorganisms, for crop protection 1982
- microreserves, for useful insects 371
- Microtus arvalis*, helminth parasites 1258
- mosquitoes
Ctenopharyngodon idella against 1784
Gambusia sp. against, in Georgia 249
infected by
Ascocystis culicis 254
Coelomomyces iliensis, in Kazakhstan 1799
Coelomomyces iliensis culicis 1800
new mermithids 1434
inhibited by *Anabaena variabilis* 1289
predatory fish against, in Kazakhstan 729
preyed on by *Paraproasopia silvestris* 1270
natural enemy introductions 1974
- Neodiprion sertifer*, parasitised by *Lophyproleptus luteator* 1226
- onion pests, predators 91
- orchard pests
natural enemies 1670
predacious mites 1669
predatory bugs 621
- Orobanchae aegyptiaca*, *Fusarium oxysporum orthoceras* against, in Astrakhan 1884
- Orobanchae* spp. attacked by *Phytomyza orobanchia* 334, 335, 336
- Pemphigus fuscicornis*, preyed on by *Thaumatomyia* spp. 92
- pests of ornamentals, biological control 709
- Phenacoccus aceris*, parasitised by *Pseudaphycus clavatus* 1934
- Phragmatobia fuliginosa*, infected by *Oospira* sp., in Siberia 1443
- Phytonomus* sp., *Hexameris parastepposis* against, in Uzbekistan 1572
- Pieris brassicae*, *Trichogramma euproctidis* against, in Kirgizia 1602
- Plutella xylostella*, *Bacillus thuringiensis* against, in Transcarpathia 96
- Pseudococcus comstocki*, controlled by *Pseudaphycus* sp., in Crimea 629
- Psylla mali*, preyed on by *Calvia quattuordecimguttata* 476
- Rhagium inquisitor*, parasitised by *Zaommoencyrtus emetzi* 1421
- Ritsemia nanus*, parasitised by *Hadzhibeylia physococci*, in Georgia 1932
- Sanguinicola* spp., predators 782
- Schizaphis graminum*, natural enemies in Ukraine 31, 32
- Simulium* spp., infected by microsporidia 756
- Sitobion avenae*, natural enemies, in Ukraine 32
- Syrphidae, parasites, in Kirgizia 1969
- tabanids
pathogens 409, 764, 765, 1952
preyed on by *Bembix* spp., in Tajikistan 763
- Tanytarsus* sp., infected by *Limnomermis* sp., in Kazakhstan 1822
- Tetranychus urticae*, *Phytoseiulus persimilis* against 104
- Tomicus minor*, infected by nematodes 221
- Tortrix viridana*
Bacillus thuringiensis against 1730
natural enemies 709
- Toxoptera aurantii*, preyed on by *Forficula auricularia*, in Georgia 1699
- tree pests, *Bacillus thuringiensis* against 193, 194
- tree-trunk pests, parasitised by *Sclerodermus turkmenicus*, in Tajikistan 1199, 1200
- Trialeurodes vaporariorum*, *Aschersonia* sp. against 105
- Trichogramma* spp., collection technique 1894
- Verticillium dahliae*, *Trichoderma viride* against 140, 1115
wheat shoot-flies, preyed on by *Bembidion* spp., in Ukraine 25
- Ustilago utriculosa*, infecting *Polygonum pensylvanicum* 1866
- Vairimorpha necatrix*
effect on hosts 1506
infectivity 485
multiplication technique 365
- Valsa cincta*, antagonists against, in German Federal Republic 631
- Valsa leucostoma*, antagonists against, in German Federal Republic 631
- Vavaria culicis*, infecting mosquitoes 740, 1288
- Vavaria multispora*, infecting *Simulium* spp. 1817
- Venezuela
Biomphalaria glabrata, competitors 1840
- Venturia canescens*
parasitising
Ephestia cautella, behavioural response model 2062
Galleria mellonella 1260
- Venturia palmaris*, parasitising *Tirathaba rufivena* 188
- Verticillium*
infecting
Chrysomphalus aonidium 1680
Insulaspis gloverii 1680
Parlatoria ziziphus 1680
Unaspis yanonenis 1680
- Verticillium albo-atrum*, controlled by antagonists, in UK 1617
- Verticillium dahliae*, *Trichoderma viride* against, in USSR 140, 1115
- Verticillium lecanii*
against
Aphis gossypii, in UK 956
Hoplocampa testudinea, in Poland 624
Myzus persicae, in UK 956
Trialeurodes vaporariorum in Sweden 117, 1087
in UK 120, 956
effect of
pesticides 862, 863
RH 487
infecting
Cecidophyopsis ribis 1627
Coccus viridis 655
Synanthedon salmachus 1625
inhibiting *Uromyces dianthi* 713
- Verticillium sphaerosporum*, inhibiting plant pathogens 1099
- Vespa*, preying on *Heliothis virescens* 61
- Vespula acadica*, parasitised by *Bareogonales canadensis*, in USA 1307
- Vespula germanica*, preying on tabanids 763
- Vespula pennsylvanica*, infected by *Pheromermis pachysoma*, in North America 1836
- Vespula vulgaris*
parasitised by *Bareogonales canadensis*, in USA 1307
preying on *Hydrotia irritans* 281
- Villa*, taxonomy 1945
- Villa brunnea*, parasitising *Thaumetopoea pityocampa* 1745
- Virin-ENSH, against *Lymantria dispar*, in USSR 1728
- Viruses
Aedes aegypti desnonucleosis virus, storage 891
Aedes cantator CPV, in USA 752
Agrotis segetum GV, in Sweden 582
Agrotis segetum CPV, in Sweden 582
Amsacata moorei NPV, characteristics 520

Viruses (contd.)

- Amyleois transitella* nonoccluded virus, in USA 1145
- Anomis sabulifera* NPV, in India 1113
- Anticarsia gemmatilis* NPV, in USA 1581
- Artogeia rapae* GV
effects on host 1604
in China 1079, 1080, 1081
interaction with *Apanteles glomeratus* 1603
- Artogeia rapae* non-occluded virus, in China 1081
- Autographa californica* NPV
against *Hyphantria cunea*, in USA 190
bioassay technique 870
effect of methoprene on yield 1918
infecting *Agrotis ipsilon* 519
preparation techniques 1904
- Baculovirus heliothis*, against *Heliothis* spp., in USA 72
- Baculovirus oryctes*, controlling *Oryctes rhinoceros*, in South Pacific 186, 1700, 1701
- Baculovirus* sp.
against *Scapanes australis*, in Solomon Is. 955
infecting *Plutella xylostella*, in USSR 1982
- baculoviruses, safety 437
- beneficial effects, review 948
- Birdiavirus diprionis*, against *Neodiprion sertifer*, in Czechoslovakia 1753
- Campoletis sonorensis* ovarian virus, suppressing immune response in *Heliothis virescens* 463
- Chilo sacchariphagus indicus* GV, in India 1543
- Cnaphalocrocis medinalis* GV, in China 1559
- Cydia pomonella* GV
effect of UV 492
in Canada 1131
in USSR 150
pathogenic to *C. nigricana* 1515
quality control 871
- Cydia pomonella* NPV, bioassay technique 1915
- Dendrolimus punctatus* CPV, in China 216
- Dendrolimus punctatus* NPV, in China 216
- Dendrolimus spectabilis* CPV, in China 666
- Dendrolimus spectabilis* GV, in China 666
- Earias biplaga* CPV 1636
- Ectropis obliqua* NPV, in China 1697
- Epinotia aporema* GV, in Chile 537
- Erinnyis ello* GV, in Brazil 560
- Eumeta variegata* NPV, in China 666
- Euxoa scandens* CPV, in Canada 1511
- Gonometa podocarpi* NPV, in Kenya 1749
- Heliothis armigera* GV, in USSR 581
- Heliothis armigera* NPV
efficiency 1110
in China 1641
properties 2040
- Heliothis punctigera* NPV, disseminated by predators, in Australia 1120
- Heliothis zea* NPV
bioassay technique 870
properties 2040
- Homona magnanima* GV, in Japan 658
- Hyphantria cunea* GV
in Romania 684
in USA 190
- Hyphantria cunea* NPV, in USA 190
- Lacanobia suasa* NPV, in Romania 913
- Latoia consocia* GV, in China 666
- Leucoma salicis* CPV, in China 666
- Leucoma salicis* NPV, in China 666
- Lymantria dispar* NPV
activity 1727
age-related susceptibility 1514
effect of artificial diet on production 1410
in China 666
in USA 674
in USSR 1728
mass production 1917
quality control 871
- Lymantria monacha* NPV, in Sweden 664
- Lymantria xyliana* NPV, in China 191, 1729
- Malacosoma disstria* NPV, in Canada 685
- Mamestra brassicae* NPV
age-related susceptibility 1514
dosage response 368
effect of UV 492
in France 1609
production 1903
vertebrate safety 888
- Morrenia odorata* potyvirus, in Argentina 814
- Mythimna separata* NPV
effect of UV 2041
not infective to *Samia cynthia ricini* 1261
stability in soil 1026
myxomatosis, infecting *Oryctolagus cuniculus* 237, 238
- Neodiprion sertifer* NPV
assessment in soil 355
in Sweden 664
- Nymphula depunctalis* NPV, in India 1032
- Orgyia pseudotsugata* NPV
aerial spraying, in Canada 1234
persistence in soil, in USA 1235
propagation 1916
- Pandemis heperana* NPV, in France 1661
- Pericallia ricini* GV, pathogenicity 1517
- Pieris brassicae* GV, pathogenicity 1516
- Phalaenoides glycinae* GV, in Australia 589
- Phthorimaea operculella* GV, susceptibility, in Australia 109
- Phyllophaga anxia* entomopoxvirus, in Canada 549
- Prospalta capensis* NPV, in India 1595
- Rachiplusia ou* NPV, infecting *Agrotis ipsilon* 519
- Reovirus* sp., infecting *Lymantria dispar*, in USSR 1982
safety testing 886, 887, 951
- Spilosoma obliqua* NPV, susceptibility 1063
- Spodoptera exempta* NPV, pathogenicity 1512
- Spodoptera exigua* NPV, identification 1445
- Spodoptera littoralis* NPV, age-related susceptibility 1514
- Spodoptera litura* NPV
effects on host 1513
in India 574, 606
- Teleogryllus commodus* CrPV, in Australia 1055
- tobacco mosaic virus, against *Solanum carolinense*, in USA 1347
- Trichoplusia ni* NPV, interaction with *Voria ruralis* 2072
- Trichoplusia ni* RNA virus, detection 1391
- Wiseana* spp. enzootic viruses, in New Zealand 48
- Zeiraphera diniana* GV, population cycles 1011
- Virusine**, against *Mamestra brassicae*, in France 1609
- Viscum loranthei*, parasitising *Scurrula cordifolia* 1365
- Vogtia malloi*, against *Alternanthera philoxeroides*, in Australia 828, 1878
- Voria ruralis*, parasitising *Trichoplusia ni*, interaction with NPV 2072
- Vulgichneumon suigenis*, parasitising; *Mythimna separata* 1446
- Walnuts**
Acrobasis juglandis, parasites, in USA 166
Lepidosaphes ulmi, preyed on by *Hemisarcophaga malus*, in Bulgaria 1668
- Waterlilies**
Megamelus davisii, natural enemies, in USA 1765
- Western Samoa**
Graeffea crouanii, *Paranastatus* spp. against 187
Oryctes rhinoceros, integrated control 186
Rhabdoscelus obscurus, biological control 187
- Wheat**
Aelia rostrata, parasites, in Turkey 1569
Delia coarctata, preyed on by *Bembidion* spp., in USSR 25
Diuraphis noxia, natural enemies, in USSR 31, 32
Eurygaster integriceps, natural enemies, in USSR 28, 29, 1039, 1040
Gaeumannomyces graminis tritici, antagonists 35
insect fauna, in Romania 27
Metopolophium dirhodum, *Aphidius* spp. against, in Chile 1041
Opomyza florum, preyed on by *Bembidion* spp., in USSR 25
Schizaphis graminum, natural enemies, in USSR 31, 32
Sitobion avenae
Aphidius spp. against, in Chile 1041
natural enemies, in USSR 32
white grubs, susceptible to *Bacillus popilliae* 26
- Willows**
Brochymena spp., parasitised by *Trichopoda plumipes*, in USA 1734
Lymantria dispar, infected by microsporidia, in USSR 672
Rabdophaga spp., parasitised by *Platyaster* spp., in Japan 395

- Winthemia**
parasitising
Copitarsia turbata 1621
Phalaenoides glycinae 589
Spodoptera frugiperda 1555
- Wiseana**
controlled by virus 48
in New Zealand 48, 552, 553
infected by *Neoaplectana bibionis* 553
nematodes against 552
- Wolffia**, infected by *Pythium aphanidermatum* 1362
- Wolffia columbiana**, attacked by hybrid carp. 833
- Wyeomyia vanduzeei**, preyed on by *Toxorhynchites rutilus*, in USA 952
- Xanthium pungens**, biological control, in Australia 787
- Xanthium strumarium**
attacked by
Euaesta aequalis 310
Planeta imbridana 310
in USA 310
- Xanthocryptus novozealandicus**, parasitising *Synanthedon salmachus* 1625
- Xanthogaleruca luteola**, *Neoaplectana carpocapsae* against, in USA 1735
- Xanthomonas campestris**, inhibited by bacteriophage, in Brazil 1083
- Xanthopimpla**, parasitising *Sylepta derogata* 597
- Xanthoteras politum**, parasites, in USA 1732
- Xenopsylla cunicularis**, parasitising *Oryctolagus cuniculus* 239, 1776
- Xenopsylla gerbilli minax**, infected by *Imosmermis morosovi*, in USSR 1437
- Xenorhabdus**, dimorphism 996
- Xenorhabdus luminescens**, temperature requirements 1505
- Xenorhabdus nematophilus**
in *Neoaplectana carpocapsae* 483
reaction to insect immunity 995
- Xiphenema**, infected by *Bacillus penetrans*, in South Africa 1547
- Xorides**, keys, in UK 1417
- Xyleutes ceramicus**, biological control, in Thailand 1467
- Xylocoris flavipes**, biology 2022
- Xyloterus domesticus**, infected by *Pleistophora xyloteri*, in German Federal Republic 411
- Xyphigaster pseudococci**, parasitising *Coccodiplosis citri* 87, 88
- Xysticus**
preying on
Coccinella septempunctata 1966
Hypera postica 1046
- Xysticus ferox**
preying on
mosquitoes 1786
Rhinocyllus conicus 1321
- Xysticus funestus**, preying on *Rhinocyllus conicus* 1321
- Ycaploca evansi**, parasitising *Hylotrupes bajulus* 721
- Yemen**
Batrachedra amydraula, preyed on by *Crematogaster* spp. 1706
- Yews**
Otiorynchus sulcatus, *Heterorhabditis heliothidis* against, in Australia 1098
- soft scales, parasites, in USSR 709
- Yugoslavia**
Brachycaudus helichrysi, natural enemies 567
Ceutohynchus assimilis, parasitised by *Mesopolobus morys* 562
Cirsium arvense, infected by
Puccinia suaveolens 1324
Cuscuta spp., pathogens 1364
Lymantria dispar, natural enemies 203
Orobancha spp., pathogens 1364
Zagrammosoma variegatum, parasitising *Bucculatrix thurberiella* 1644
Zagreus hexasticta, against *Orthezia olivicola*, in Peru 1686
Zaomma lambinus, taxonomy 1936
Zaommoencyrtus emetzi, parasitising *Rhagium inquisitor*, description 1421
Zarhopalus corvinus, parasitising *Pseudococcus* spp. 1143
Zeiraphera diniana, infected by GV, population cycles 1011
Zelee chlorophthalma
parasitising
Heliothis virescens 61
Spodoptera littoralis 592
Zeteticontus, against *Carpophilus hemipterus*, in Hawaii 1177
Zetzellia mali
preying on
Eotetranychus pruni 1629
orchard pests 627, 1669
Zeuzera pyrina, integrated control 164
Zonitoides nitidus, against *Lymnaea truncatula*, in France 294
Zonocerus variegatus
in Nigeria 1214
infected by *Entomophthora grylli* 1214
parasitised by *Sarcophaga exuberans* 1214
Zoophthora, from Israel 922
Zoophthora aphidis
infecting
Acyrtosiphon spp. 1571
Anoecia sp. 413
Zoophthora neoaphidis
against *Aphis fabae*, in UK 1065
ecology 1528
infecting *Acyrtosiphon kondoi*, spore production 2037
Zoophthora petchi, infecting *Philaenus spumarius*, description 1440
Zoophthora phalloides
ecology 1528
infecting
Acyrtosiphon spp. 1571
Myzus ascalonicus 1528
Tubaphis ranunculina 1528
Zoophthora phytionomi
infecting
Hypera postica 56, 534, 535, 1047
Hypera punctata 56
Zoophthora radicans
infecting
Plutella xylostella 1077
Therioaphis trifolii 1573
Thymelicus lineola 1576
taxonomy 1440
Zygogramma suturalis, against *Ambrosia* spp., in USSR 1865

